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# **python\_ics Documentation**

***Release 903.17***

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Intrepid Control Systems, Inc. open source Python module for interfacing to Intrepid hardware. Basic knowledge of using and installing Python modules is assumed. Please see <https://docs.python.org/3/installing/index.html> for documentation on how to install Python modules.

This module is essentially just a wrapper around icsneo40.dll. For more documentation please visit neoVI DLL Documentation under <https://intrepidcs.com/support/support-resources/>



# CHAPTER 1

## Whats New?

v903 is a new release that implements features that break existing API in some areas.

## 1.1 ISO 15765-2

old naming conventions have been updated to reflex closer to the actual codebase.

```
# Old:
tx_msg = ics.CmISO157652TxMessage()
rx_msg = ics.CmISO157652RxMessage()

# New:
tx_msg = ics.st_cm_iso157652_tx_message.st_cm_iso157652_tx_message()
rx_msg = ics.st_cm_iso157652_rx_message.st_cm_iso157652_rx_message()
```

`ics.st_cm_iso157652_tx_message.st_cm_iso157652_tx_message()` data structure is now a `ctypes.c_ubyte` array instead of a python list.

```
# Old:
msg.data = [x for x in range(number_of_bytes)]

# New:
my_data = [x for x in range(number_of_bytes)]
msg.data = (ctypes.c_ubyte*len(msg.data))(*my_data)

>>> msg.data
<ics.structures.st_cm_iso157652_tx_message.c_ubyte_Array_4096 object at 0x0000023E534BE940>
```

## 1.2 Settings

v903 and up have converted over to a new auto generation of `icsnVC40.h`. This enables faster support for newer Intrepid devices and less error prone. With this switch we have moved to using `ics.s_device_settings`.

```
# Old behavior:
device = ics.open_device()
settings = ics.get_device_settings(device)
# settings is a Vcan3Settings type
settings.can1.Baudrate = 1
ics.set_device_settings(device, settings)

# New behavior
device = ics.open_device()
settings = ics.get_device_settings(device)
# settings is a s_device_settings type
settings.vcan3.can1.Baudrate = 1
ics.set_device_settings(device, settings)
```

Setting support for the following devices:

- red: `s_red_settings`
- fire: `s_fire_settings`
- firevnet: `s_fire_vnet_settings`
- cyan: `s_cyan_settings` (FIRE2)
- vcan3: `svcan3_settings`
- vcan4: `svcan4_settings`
- ecu: `secu_settings`
- ievb: `sievb_settings`
- pendant: `s_pendant_settings`
- radgalaxy: `srad_galaxy_settings`
- radstar2: `srad_star2_settings`
- neoobd2\_sim: `sobd2_sim_settings`
- cmprobe: `s_cm_probe_settings`
- obd2pro: `sobd2_pro_settings`
- vcan412: `svcan412_settings`
- vcan4\_12: `svcan412_settings`
- neoecu\_avb: `secu_avb_settings`
- radsupermoon: `srad_super_moon_settings`
- radmoon2: `srad_moon2_settings`
- pluto: `srad_pluto_settings`
- plutoswitch: `s_pluto_switch_settings_s`
- radgigalog: `srad_gigalog_settings`
- canhub: `scan_hub_settings`



- neoecu12: s\_neo\_ecu12\_settings
- vcanrf: svcanrf\_settings
- eevb: seevb\_settings
- flexvnetz: s\_flex\_vnetz\_settings
- vividcan: s\_vivid\_can\_settings
- vcan4\_ind: svcan4\_ind\_settings
- radgigastar: srاد\_gigastar\_settings
- jupiter: srاد\_jupiter\_settings
- fire3: s\_fire3\_settings
- radmoon\_duo: s\_rad\_moon\_duo\_settings

## 1.3 PyInstaller

Due to the added complexity underneath when building PyInstaller `hidden_imports.py` should be used now in your spec script.

## 1.4 Other Fixes and Changes

- Expanded documentation.
- Adding support for Python 3.8 and Python 3.9.
- Updated iso15765 example to utilize new flags.
- Updated documentation to mention libicsneolegacy.so
- Fixed an issue when `get_messages()` timeout was 0 no messages were returned.
- Updated documentation and added `use_server` option for opening devices.
- Added `read_jupiter_firmware` and `write_jupiter_firmware` methods.
- Fixed a memory leak in `find_devices()`
- Add methods for Gigalog/Gigastar disk formatting
- Fixed a documentation issue per issue #90
- Fixed month being offset by 1 in `ics.get_rtc()`.
- Fixed `transmit_messages()` to handle extended network ids.
- Fixed code related to `meth_get_backup_power_ready()` internally.



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## Versioning Information

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Minor differences can occur between different icsnVC40.h versions. These differences are usually just structures and constant differences. Below is a list of how the python\_ics version correlates to the icsnVC40.h version:

### 2.1 v903

Starting with 903, python\_ics module will now match official upstream version releases.

```
pip install 'python_ics>=5.0,<904.0' --force-reinstall
```

**Note:** Refer to platform specific installation if not on Windows

### 2.2 Older Versions:

- **v802** `pip install 'python_ics>=2.0,<3.0' --force-reinstall`

**Note:** Refer to platform specific installation if not on Windows

- **v803** `pip install 'python_ics>=3.0,<4.0' --force-reinstall`

**Note:** Refer to platform specific installation if not on Windows

- **v900** `pip install 'python_ics>=4.0,<5.0' --force-reinstall`

**Note:** Refer to platform specific installation if not on Windows



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### Installation on Windows

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PyPi provides binary packages for Windows. You can simply install the `python_ics` module by running the following command:

```
pip install python_ics
```

**Note:** `pip.exe` is usually located under the `Scripts` directory under the Python installation directory.

### 3.1 Building from source

Building from source on windows is not usually need so it won't really be covered here in detail. As a starting point you'll need to match the compiler version used to build the official Python binaries (MSVC). If the build environment is setup correctly, you should be able to run `python setup.py build` like usual.

### 3.2 Intrepid icsneo40 Library

`python_ics` module looks for `icsneo40.dll` in the normal windows DLL search paths. The module will throw an exception if its not found.



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### Installation on Linux

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`python_ics` does not provide binaries for linux distributions so we will have to compile from source. This can be easily achieved by utilizing Python's PIP. First we need to make sure we have some base packages installed.

`libicsneo` is a newer library and has wider support for Intrepid Products under linux (<https://github.com/intrepidcs/libicsneo>). `libicsneo` has a legacy library (`libicsneolegacy.so`) that can be loaded by utilizing `ics.override_library_name("libicsneolegacy.so")`.

#### 4.1 Fedora Dependencies (FC28)

```
sudo dnf install redhat-rpm-config gcc g++ python3-devel
```

#### 4.2 Debian/Ubuntu Dependencies

```
sudo apt install build-essential python-dev
```

#### 4.3 Others (Required dependencies)

- GCC
- G++
- Python Development packages (We Need to link to `Python.h`)

#### 4.4 Installation

After dependencies are installed we can run the following pip command:

```
pip install python_ics
```

**Note:** A lot of distributions have Python 2 and 3 installed side by side. As of this writing without a version suffix the commands still default to version 2 of the Python binaries. In order to utilize the Python 3 binaries you must append a 3 after the binary names (python3 and pip3 instead of just python and pip).

## 4.5 Intrepid libicsneoapi.so Library

Please see <https://github.com/intrepidcs/icsneoapi> for more details.



## CHAPTER 5

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### Getting Started

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Please see [https://github.com/intrepidcs/python\\_ics/tree/master/examples](https://github.com/intrepidcs/python_ics/tree/master/examples) for simple examples on how to use this module. Most function documentation has a simple example on how its intended to be used. Every function was designed to be as close as possible to its C counterpart unless it was deemed to make the function more pythonic in nature.

For those experienced with the C API `ics.open_device (icsneoOpenNeoDevice())` behavior has been changed the most (no parameters makes it auto utilize `ics.find_devices (icsneoFindNeoDevices())` and open the first device). Also since python is a object oriented language the module utilizes this and auto cleans up device handles when going out of scope so there is usually no need to call `ics.close_device()`.



Examples can be found at [https://github.com/intrepidcs/python\\_ics/tree/master/examples](https://github.com/intrepidcs/python_ics/tree/master/examples)

For extra information on data structures and underlying functionality, please visit neoVI DLL Documentation under <https://intrepidcs.com/support/support-resources/>

## 6.1 Opening a device

The `open_device_example.py` example shows how to successfully open and close an Intrepid device.

## 6.2 Transmitting and Receiving a CAN message

The following examples show how to interact with CAN messages on an Intrepid device.

- `transmit_can_example.py`: Basic example showing how to transmit and receive standard CAN frame
- `transmit_can_xtd_example.py`: Builds off of the CAN example and adds extended Arbitration ID attributes
- `canfd_transmit_example.py`: Bare minimum example on how to transmit over CANFD.

## 6.3 ISO 15765-2 Example

The `iso15765_example.py` example shows how to setup basic ISO 15765-2 receive filters and transmitting an ISO 15765-2 message.

After opening an Intrepid device `ics.iso15765_enable_networks` should be called to enable ISO 15765-2.

Receive filtering can be established by passing a custom `ics.CmISO157652RxMessage()` to `ics.iso15765_receive_message()`.

Similarly transmitting an ISO 15765-2 frame can be accomplished by passing a custom `ics.CmISO157652TxMessage()` to `ics.iso15765_transmit_message()`.

## 6.4 Missing an example?

Need an example on something that isn't covered here? Please submit an issue on [github](#) or feel free to send over a Pull Request of your own.

## CHAPTER 7

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### Module Documentation

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Python C Code module for interfacing to the icsneo40 dynamic library. Code tries to respect PEP 8 (<http://python.org/dev/peps/pep-0008>). Function naming convention does not follow the tradition c style icsneo40 naming convention as pyics module name acts as the namespace (icsneo portion of the function) and function names are suppose to be lowercase with underscores instead of mixedCase like icsneo API.

**C API can be mimiced almost identically by doing the following:**

```
>>> import ics as icsneo
>>> devices = icsneo.FindNeoDevices()
>>> for device in devices:
...     print(device.Name, device.SerialNumber)
...
neoVI FIRE 59886
```

**Recommended *Python* way by doing the following:**

```
>>> import ics
>>> devices = ics.find_devices()
>>> for device in devices:
...     print(device.Name, device.SerialNumber)
...
neoVI FIRE 59886
```

It should be noted that `ics.ics.NeoDevice` is used a little bit differently than the C API. `ics.ics.NeoDevice` contains two extra members:

`ics.ics.NeoDevice.AutoHandleClose` and `ics.ics.NeoDevice._Handle`

The handle normally returned from `icsneoOpenNeoDevice()` is stored inside `_Handle` and setting `AutoHandleClose` to `True` (Default) will automatically close the handle when the `ics.ics.NeoDevice` goes out of scope.

Installation:

```
pip install python_ics
```

<https://pypi.python.org/pypi/python-ics>

**exception** ics.ics.**ArgumentError**

Bases: Exception

**exception** ics.ics.**RuntimeError**

Bases: Exception

**class** ics.ics.**NeoDevice**

Bases: object

NeoDevice object

**AutoHandleClose**

When NeoDevice is freed the handle will automatically be closed, if true.

**DeviceType**

**Handle**

**IsOpen**

This contains the handle returned from icsneoOpenDevice() API. If uncertain, don't use this.

**MaxAllowedClients**

**Name**

String describing DeviceType, extension to Python api only.

**NumberOfClients**

**SerialNumber**

**class** ics.ics.**SpyMessage**

Bases: object

SpyMessage object

**AckBytes**

**ArbIDOrHeader**

**Data**

**DescriptionID**

Not Used

**ExtraDataPtr**

**ExtraDataPtrEnabled**

**MessagePieceID**

Not Used

**MiscData**

**NetworkID**

This value is used to identify which network this message was received on.

**NetworkID2**

This value is used to identify which network this message was received on.

**NodeID**

Not Used

**NumberBytesData**

Holds the number of bytes in the Data(1 to 8) array or the number of bytes in a CAN remote frame (The DLC).

**NumberBytesHeader**

Used for J1850/ISO messages. It indicates how many bytes are stored in the Header(1 to 4) array.

**Protocol**

Valid values are SPY\_PROTOCOL\_CAN, SPY\_PROTOCOL\_J1850VPW, and SPY\_PROTOCOL\_ISO9141.

**StatusBitField****StatusBitField2****StatusBitField3****StatusBitField4****TimeHardware**

Hardware time stamp. The TimeStamp is reset on device open

**TimeHardware2**

Hardware time stamp. The TimeStamp is reset on device open

**TimeStampHardwareID**

This is an identifier of what type of hardware timestamp is used. Since neoVI's timestamp is always the same, this doesn't change.

**TimeStampSystemID**

This is an identifier of what type of system timestamp is used. Since WIN32 neoVI's timestamp is always the same, from the timeGetTime API, this doesn't change.

**TimeSystem**

TimeSystem is loaded with the value received from the timeGetTime call in the WIN32 multimedia API.

**TimeSystem2**

TimeSystem is loaded with the value received from the timeGetTime call in the WIN32 multimedia API.

**noExtraDataPtrCleanup**

Tells Python to not clean up ExtraDataPtrMemory, If this is enabled. Ignore, if unsure.

**class ics.ics.SpyMessageJ1850**

Bases: object

SpyMessageJ1850 object

**AckBytes****Data****DescriptionID**

Not Used

**ExtraDataPtr****ExtraDataPtrEnabled****Header****MessagePieceID**

Not Used

**MiscData****NetworkID**

This value is used to identify which network this message was received on.

**NetworkID2**

This value is used to identify which network this message was received on.

**NodeID**

Not Used

**NumberBytesData**

Holds the number of bytes in the Data(1 to 8) array or the number of bytes in a CAN remote frame (The DLC).

**NumberBytesHeader**

Used for J1850/ISO messages. It indicates how many bytes are stored in the Header(1 to 4) array.

**Protocol**

Valid values are SPY\_PROTOCOL\_CAN, SPY\_PROTOCOL\_J1850VPW, and SPY\_PROTOCOL\_ISO9141.

**StatusBitField****StatusBitField2****StatusBitField3****StatusBitField4****TimeHardware**

Hardware time stamp. The TimeStamp is reset on device open

**TimeHardware2**

Hardware time stamp. The TimeStamp is reset on device open

**TimeStampHardwareID**

This is an identifier of what type of hardware timestamp is used. Since neoVI's timestamp is always the same, this doesn't change.

**TimeStampSystemID**

This is an identifier of what type of system timestamp is used. Since WIN32 neoVI's timestamp is always the same, from the timeGetTime API, this doesn't change.

**TimeSystem**

TimeSystem is loaded with the value received from the timeGetTime call in the WIN32 multimedia API.

**TimeSystem2**

TimeSystem is loaded with the value received from the timeGetTime call in the WIN32 multimedia API.

**noExtraDataPtrCleanup**

Tells Python to not clean up ExtraDataPtrMemory, If this is enabled. Ignore, if unsure.

```
ics.ics.ClosePort()
```

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.close_device()` method.

---

```
ics.ics.EnableBusVoltageMonitor()
```

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.enable_bus_voltage_monitor()` method.

---

```
ics.ics.EnableNetworkCom()
```



---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.enable_network_com()` method.

---

`ics.ics.FindNeoDevices()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.find_devices()` method.

---

`ics.ics.FirmwareUpdateRequired()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.firmware_update_required()` method.

---

`ics.ics.ForceFirmwareUpdate()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.force_firmware_update()` method.

---

`ics.ics.GetActiveVNETChannel()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_active_vnet_channel()` method.

---

`ics.ics.GetBackupPowerEnabled()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_backup_power_enabled()` method.

---

`ics.ics.GetBackupPowerReady()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_backup_power_ready()` method.

---

`ics.ics.GetBusVoltage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_bus_voltage()` method.

---

`ics.ics.GetDLLFirmwareInfo()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_dll_firmware_info()` method.

---

`ics.ics.GetDLLVersion()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_dll_version()` method.

---

`ics.ics.GetDeviceSettings()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_device_settings()` method.

---

`ics.ics.GetDeviceStatus()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_device_status()` method.

---

`ics.ics.GetErrorMessages()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_error_messages()` method.

---

`ics.ics.GetHWFirmwareInfo()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_hw_firmware_info()` method.

---

`ics.ics.GetLastAPIError()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_last_api_error()` method.

---

`ics.ics.GetMessages()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_messages()` method.

---

`ics.ics.GetPerformanceParameters()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.get\_performance\_parameters()* method.

---

`ics.ics.GetRTC()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.get\_rtc()* method.

---

`ics.ics.GetSerialNumber()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.get\_serial\_number()* method.

---

`ics.ics.GetTimeStampForMsg()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.get\_timestamp\_for\_msg()* method.

---

`ics.ics.ISO15765_DisableNetworks()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.iso15765\_disable\_networks()* method.

---

`ics.ics.ISO15765_EnableNetworks()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.iso15765\_enable\_networks()* method.

---

`ics.ics.ISO15765_ReceiveMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.iso15765\_receive\_message()* method.

---

`ics.ics.ISO15765_TransmitMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant *ics.ics.iso15765\_transmit\_message()* method.

---

`ics.ics.LoadDefaultSettings()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.load_default_settings()` method.

---

`ics.ics.OpenNeoDevice()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.open_device()` method.

---

`ics.ics.ReadJupiterFirmware()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.read_jupiter_firmware()` method.

---

`ics.ics.ReadSDCard()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.read_sdcard()` method.

---

`ics.ics.RequestDiskDetails()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_disk_details()` method.

---

`ics.ics.RequestDiskFormat()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.disk_format()` method.

---

`ics.ics.RequestDiskFormatCancel()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.disk_format_cancel()` method.

---

`ics.ics.RequestDiskFormatProgress()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_disk_format_progress()` method.

---

`ics.ics.RequestEnterSleepMode()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.request_enter_sleep_mode()`

---

method.

---

`ics.ics.ScriptClear()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_clear()` method.

---

`ics.ics.ScriptGetFBlockStatus()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_get_fblock_status()` method.

---

`ics.ics.ScriptGetScriptStatus()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_get_status()` method.

---

`ics.ics.ScriptGetScriptStatusEx()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_script_status()` method.

---

`ics.ics.ScriptLoad()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_load()` method.

---

`ics.ics.ScriptReadAppSignal()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_read_app_signal()` method.

---

`ics.ics.ScriptReadRxMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_read_rx_message()` method.

---

`ics.ics.ScriptReadTxMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_read_tx_message()`

---

method.

---

`ics.ics.ScriptStart()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_start()` method.

---

`ics.ics.ScriptStartFBlock()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_start_fblock()` method.

---

`ics.ics.ScriptStop()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_stop()` method.

---

`ics.ics.ScriptStopFBlock()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_stop_fblock()` method.

---

`ics.ics.ScriptWriteAppSignal()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_write_app_signal()` method.

---

`ics.ics.ScriptWriteRxMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_write_rx_message()` method.

---

`ics.ics.ScriptWriteTxMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_write_tx_message()` method.

---

`ics.ics.SetActiveVNETChannel()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_active_vnet_channel()` method.

---

`ics.ics.SetBackupPowerEnabled()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_backup_power_enabled()` method.

---

`ics.ics.SetBitRate()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_bit_rate()` method.

---

`ics.ics.SetBitRateEx()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_bit_rate_ex()` method.

---

`ics.ics.SetContext()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_context()` method.

---

`ics.ics.SetDeviceSettings()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_device_settings()` method.

---

`ics.ics.SetFDBitRate()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_fd_bit_rate()` method.

---

`ics.ics.SetRTC()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_rtc()` method.

---

`ics.ics.SetReflashDisplayCallback()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_reflash_callback()`

---

method.

---

`ics.ics.TxMessages()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.transmit_messages()` method.

---

`ics.ics.ValidateHObject()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.validate_hobject()` method.

---

`ics.ics.WriteJupiterFirmware()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.write_jupiter_firmware()` method.

---

`ics.ics.WriteSDCard()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.write_sdcard()` method.

---

`ics.ics.base36enc(serial)`

Converts a decimal serial number to base36.

**Args:** serial (int): serial number.

**Raises:** `ics.ics.RuntimeError`

**Returns:** Str: Serial Number

```
>>> ics.base36enc(device.SerialNumber)
CY0024
```

`ics.ics.close_device(device)`

Closes the device.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

**Raises:** `ics.ics.RuntimeError`

**Returns:** Error Count (int)

```
>>> for device in ics.find_devices():
...     ics.open_device(device)
...     # Do something with the device...
...     ics.close_device(device)
... 
```

---

**Note:** `ics.ics.NeoDevice` will automatically close the device when it goes out of scope.

---



`ics.ics.coremini_clear(device, location)`

Clears the CoreMini into the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

location (int): Accepts *ics.ics.SCRIPT\_LOCATION\_FLASH\_MEM*, *ics.ics.SCRIPT\_LOCATION\_SDCARD*, or *ics.ics.SCRIPT\_LOCATION\_VCAN3\_MEM*

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> device = ics.open_device()
>>> ics.coremini_clear(device, ics.SCRIPT_LOCATION_SDCARD)
```

`ics.ics.coremini_get_fblock_status(device, index)`

Gets the status of a Coremini Function Block at *index* on *device*.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

index (int): Index of the function block.

**Raises:** *ics.ics.RuntimeError*

**Returns:** None on Success.

```
>>> device = ics.open_device()
>>> ics.coremini_get_fblock_status(device, 1)
True
```

`ics.ics.coremini_get_status(device)`

Gets the status of the CoreMini in the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** True if running, otherwise False.

```
>>> device = ics.open_device()
>>> ics.coremini_get_status(device)
>>>
```

`ics.ics.coremini_load(device, coremini, location)`

Loads the CoreMini into the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

coremini (str/tuple): Use string to load from file, Use Tuple if file data.

location (int): Accepts *ics.ics.SCRIPT\_LOCATION\_FLASH\_MEM*, *ics.ics.SCRIPT\_LOCATION\_SDCARD*, or *ics.ics.SCRIPT\_LOCATION\_VCAN3\_MEM*

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> device = ics.open_device()
>>> ics.coremini_load(device, 'cmvspy.vs3cmb', ics.SCRIPT_LOCATION_SDCARD)
```

`ics.ics.coremini_read_app_signal(device, index)`

Gets the value of a Coremini application signal at *index* on *device*.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

index (int): Index of the application signal.

**Raises:** *ics.ics.RuntimeError*

**Returns:** float on Success.

```
>>> device = ics.open_device()
>>> ics.coremini_read_app_signal(device, 1)
52
```

**ics.ics.coremini\_read\_rx\_message** (*device, index, j1850=False*)

Gets the value of a Coremini Message at *index* on *device*.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

index (int): Index of the application signal.

j1850 (bool): Use *ics.ics.SpyMessageJ1850* instead.

**Raises:** *ics.ics.RuntimeError*

**Returns:** *ics.ics.SpyMessage* Success.

```
>>> device = ics.open_device()
>>> msg = ics.coremini_read_tx_message(device, 0)
```

**ics.ics.coremini\_read\_tx\_message** (*device, index, j1850=False*)

Gets the value of a Coremini Message at *index* on *device*.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

index (int): Index of the application signal.

j1850 (bool): Use *ics.ics.SpyMessageJ1850* instead.

**Raises:** *ics.ics.RuntimeError*

**Returns:** *ics.ics.SpyMessage* Success.

```
>>> device = ics.open_device()
>>> msg = ics.coremini_read_tx_message(device, 0)
```

**ics.ics.coremini\_start** (*device, location*)

Starts the CoreMini into the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

location (int): Accepts *ics.ics.SCRIPT\_LOCATION\_FLASH\_MEM*, *ics.ics.SCRIPT\_LOCATION\_SDCARD*, or *ics.ics.SCRIPT\_LOCATION\_VCAN3\_MEM*

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> device = ics.open_device()
>>> ics.coremini_start(device, ics.SCRIPT_LOCATION_SDCARD)
```

**ics.ics.coremini\_start\_fblock** (*device, index*)

Starts a Coremini Function Block at *index* on *device*.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

index (int): Index of the function block.

**Raises:** `ics.ics.RuntimeError`

**Returns:** None on Success.

```
>>> device = ics.open_device()
>>> ics.coremini_start_fblock(device, 1)
```

`ics.ics.coremini_stop(device)`

Stops the CoreMini into the device.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

**Raises:** `ics.ics.RuntimeError`

**Returns:** None.

```
>>> device = ics.open_device()
>>> ics.coremini_stop(device)
```

`ics.ics.coremini_stop_fblock(device, index)`

Stops a Coremini Function Block at *index* on *device*.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

index (int): Index of the function block.

**Raises:** `ics.ics.RuntimeError`

**Returns:** None on Success.

```
>>> device = ics.open_device()
>>> ics.coremini_stop_fblock(device, 1)
```

`ics.ics.coremini_write_app_signal(device, index, value)`

Sets the value of a Coremini application signal at *index* on *device*.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

index (int): Index of the application signal.

value (float): New value of the application signal.

**Raises:** `ics.ics.RuntimeError`

**Returns:** None on Success.

```
>>> device = ics.open_device()
>>> ics.coremini_write_app_signal(device, 1, 52)
>>>
```

`ics.ics.coremini_write_rx_message(device, index, TODO)`

TODO

`ics.ics.coremini_write_tx_message(device, index, msg)`

TODO

`ics.ics.create_neovi_radio_message(Relay1, Relay2, Relay3, Relay4, Relay5, LED6, LED5, MSB_report_rate, LSB_report_rate, analog_change_report_rate, relay_timeout)`

Python API only. Generates data bytes for use with neoVI RADI/O CAN Messages

**Kwargs:** Relay1 (boolean): Enable/Disable Relay1

Relay2 (boolean): Enable/Disable Relay2

Relay3 (boolean): Enable/Disable Relay3

Relay4 (boolean): Enable/Disable Relay4

Relay5 (boolean): Enable/Disable Relay5

LED5 (boolean): Enable/Disable LED5

LED6 (boolean): Enable/Disable LED6

MSB\_report\_rate (int): MSB Report Rate in ms (0-255)

LSB\_report\_rate (int): LSB Report Rate in ms (0-255)

analog\_change\_report\_rate (int): Analog change report rate

relay\_timeout (int): Relay Timeout (0-255)\*255ms

Returns:

Tuple of data bytes for use with `ics.ics.SpyMessage`

Raises: `ics.ics.RuntimeError`

```
>>> msg = ics.SpyMessage()
>>> msg.Data = ics.create_neovi_radio_message(Relay1=True, Relay4=False,
↳ LED6=True, MSB_report_rate=10)
>>> msg.Data
(65, 10, 0, 0, 0)
```

`ics.ics.disk_format(device)`

Starts disk formatting on the device.

Args: device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

Raises: `ics.ics.RuntimeError`

Returns: None.

```
>>> import ics
>>> d = ics.open_device()
>>> details = ics.get_disk_details(d)
>>> details. = ics.get_disk_details(d)
>>> ics.disk_format(d, details)
>>>
```

`ics.ics.disk_format_cancel(device)`

Cancel in progress disk formatting on the device.

Args: device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

Raises: `ics.ics.RuntimeError`

Returns: None.

```
>>> import ics
>>> d = ics.open_device()
>>> ics.disk_format(d, details)
>>> ics.disk_format_cancel(d)
>>>
```

`ics.ics.enable_bus_voltage_monitor(device, enable, reserved)`

Enable or disable bus voltage monitoring.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*  
 enable (bool): int  
 reserved (int): int: Optional. Should be set to zero. Don't set, if unsure.

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> import ics
>>> d = ics.open_device()
>>> status = ics.enable_bus_voltage_monitor(d, 1)
>>>
```

**ics.ics.enable\_network\_com**(device, enable, net\_id)  
 Enable or disable network communication.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*  
 enable (bool): bool  
 net\_id (int): int: Optional. If left blank, disables/enables all networks.

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> import ics
>>> d = ics.open_device()
>>> status = ics.enable_network_com(d, True)
>>>
```

**ics.ics.find\_devices**(device\_type=*ics.ics.NEODEVICE\_ALL*)  
 Finds all connected devices and returns a tuple of *ics.ics.NeoDevice* for use in *ics.ics.open\_device()*

**Args:** device\_type (int): Accepts *ics.ics.NEODEVICE\_\** Macros

*New in 3.0 (803):*

device\_types (List/Tuple): Accepts a Container of *ics.ics.NEODEVICE\_\** Macros

network\_id (int): OptionsFindNeoEx.CANOptions.iNetworkID. Usually *ics.NETID\_CAN*, if needed

**Raises:** *ics.ics.RuntimeError*

**Returns:** Tuple of *ics.ics.NeoDevice* for use in *ics.ics.open\_device()*

```
>>> for device in ics.find_devices():
...     print(device.Name, device.SerialNumber)
...
neoVI FIRE 59886
```

*New in 3.0 (803):*

```
>>> for device in ics.find_devices([ics.NEODEVICE_FIRE, ics.NEODEVICE_VCAN3]):
...     print(device.Name, device.SerialNumber)
...
neoVI FIRE 59886
```

**ics.ics.firmware\_update\_required**(device)  
 Determines if the device firmware needs flashing.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

```
>>> ics.force_firmware_update(device)
True
```

**ics.ics.force\_firmware\_update** (device)

Forces the device to flash firmware.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

```
>>> ics.force_firmware_update(device)
True
```

**ics.ics.get\_active\_vnet\_channel** (device)

Gets active vnet channel for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: Returns active vnet channel.

**ics.ics.get\_backup\_power\_enabled** (device)

Returns the device backup power enabled for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

**ics.ics.get\_backup\_power\_ready** (device)

Returns the device backup power is ready for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

**ics.ics.get\_bus\_voltage** (device, reserved)

Reads bus voltage. (*ics.ics.enable\_bus\_voltage\_monitor*) needs to be called first.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

reserved (int): int: Optional. Should be set to zero. Don't set, if unsure.

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: value returned is in mV.

```
>>> import ics
>>> d = ics.open_device()
>>> status = ics.enable_bus_voltage_monitor(d, 1)
>>> ics.get_bus_voltage(d)
12000
>>>
```

`ics.ics.get_device_settings(device, device_type, vnet_slot)`

Gets the settings in the device. `vnet_slot` defaults to `ics.ics.PlasmaIonVnetChannelMain`

**Args:** `device` (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

`device_type` (`EDeviceSettingsType`): Optional: Overrides default device settings type. Defaults to `'-1'`

`vnet_slot` (`PlasmaIonVnetChannelMain`): Optional: Defaults to `PlasmaIonVnetChannelMain`, Used only for PLASMA/ION Devices.

**Raises:** `ics.ics.RuntimeError`

**Returns:** `ics.ics.device_settings`

```
>>> d = ics.open_device()
>>> d.Name
'neoVI ION'
>>> d.SerialNumber
404444
>>> s = ics.get_device_settings(d)
>>> s.DeviceSettingType
2
>>> s.cyan
<ics.CyanSettings object at 0x01E61B40>
>>> s.cyan.canfd1.FDMode
4
>>> s2.cyan
<ics.CyanSettings object at 0x02B113C8>
>>> s2 = ics.get_device_settings(d, -1, ics.PlasmaIonVnetChannelA)
>>> s2.DeviceSettingType
2
>>> s2.cyan.canfd1.FDMode
4
```

`ics.ics.get_device_status(device)`

Returns the device status.

**Args:** `device` (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

**Raises:** `ics.ics.RuntimeError`

**Returns:** (`ics.ics.ics_device_status`).

```
>>> import ics
>>> d = ics.open_device()
>>> status = ics.get_device_status(d)
>>> status.fire2Status.ethernetActivationLineEnabled
0
```

`ics.ics.get_disk_details(device)`

Returns the device disk details.

**Args:** `device` (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

**Raises:** `ics.ics.RuntimeError`

**Returns:** (`ics.ics.srad_gigalog_disk_details`).

```
>>> import ics
>>> d = ics.open_device()
>>> details = ics.get_disk_details(d)
```

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```
>>> details.structure.options
>>>
```

**ics.ics.get\_disk\_format\_progress** (*device*)

Returns the device disk formatting progress.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** (ics.ics.srad\_gigalog\_disk\_format\_progress).

```
>>> import ics
>>> d = ics.open_device()
>>> d = ics.disk_format(d, details)
>>> progress = ics.get_disk_format_progress(d)
>>> progress.sectorsRemaining
>>>
```

**ics.ics.get\_dll\_firmware\_info** (*device*)

Returns the DLL firmware info for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** (ics.ics.st\_api\_firmware\_info)

```
>>> device = ics.open_device()
>>> info = ics.get_dll_firmware_info(device)
>>> info.iAppMajor
7
>>> info.iAppMinor
55
>>>
```

**ics.ics.get\_dll\_version** (*device*)

Gets the DLL version.

**Args:** None

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: DLL Version

```
>>> ics.get_dll_version()
700
```

**ics.ics.get\_error\_messages** (*device*[, *j1850*, *timeout*])

Gets the error message(s) on the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** list of tuple`s. :class:`tuple` contents: (error\_number, description\_short, description\_long, severity, restart\_needed)

```
>>> device = ics.open_device()
>>> errors = ics.get_error_messages(device)
```



`ics.ics.get_hw_firmware_info(device)`  
Returns the device firmware info for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** (*ics.ics.st\_api\_firmware\_info*)

```
>>> device = ics.open_device()
>>> info = ics.get_hw_firmware_info(device)
>>> info.iAppMajor
7
>>> info.iAppMinor
55
>>>
```

`ics.ics.get_last_api_error(device)`  
Gets the error message from the last API call.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Tuple: (error, description short, description long, severity, restart needed)

```
>>> device = ics.open_device()
>>> try:
...     msg = ics.coremini_read_tx_message(device, 0)
... except ics.RuntimeError as ex:
...     print(ex)
...     print(ics.get_last_api_error(device))
...
Error: coremini_read_tx_message(): icsneoScriptReadTxMessage() Failed
(224, 'Invalid Message Index for script.', 'Invalid Message Index for script.
↳', 16, 0)
```

`ics.ics.get_library_path()`

`ics.ics.get_messages(device[, j1850, timeout])`  
Gets the message(s) on the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

j1850 (bool): Return *ics.ics.SpyMessageJ1850* instead.

imeout (float): Optional timeout to wait for messages in seconds (0.1 = 100ms).

**Raises:** *ics.ics.RuntimeError*

**Returns:** tuple of two items. First item is a tuple of *ics.ics.SpyMessage* and second is the error count.

```
>>> device = ics.open_device()
>>> messages, errors = ics.get_messages(device)
>>> len(messages)
14
>>> hex(messages[0].ArbIDOrHeader)
'0x160'
>>> messages[0].Data
(36, 11, 11, 177, 37, 3, 11, 199)
```

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```
>>> errors
0
```

**ics.ics.get\_performance\_parameters** (*device*)

Gets the Performance Parameters on *device*.

**Args:** *device* (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Tuple on Success: (buffer count, buffer max, overflow count, reserved, reserved, reserved, reserved, reserved)

```
>>> device = ics.open_device()
>>> ics.get_performance_parameters(device)
(0, 24576, 0, 0, 0, 0, 0, 0)
```

**ics.ics.get\_rtc** (*device*)

Gets the Real-Time Clock of the device.

**Args:** *device* (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Tuple: (datetime.datetime object, offset in seconds)

```
>>> device = ics.open_device()
>>> ics.get_rtc(device)
(datetime.datetime(2014, 9, 10, 17, 45, 45), 3)
```

**ics.ics.get\_script\_status** ()

Accepts a *ics.ics.NeoDevice*, exception on error. Returns a list of values of what ulParameters would hold

**ics.ics.get\_serial\_number** (*device*)

Gets the serial number out of the device.

**Args:** *device* (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: Serial Number Version

```
>>> ics.get_serial_number(device)
53123
```

**ics.ics.get\_timestamp\_for\_msg** (*device*, *msg*)

Calculates the timestamp for a message.

**Args:** *device* (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

*msg* (*ics.ics.SpyMessage*): *ics.ics.SpyMessage*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Float: Timestamp for the message.

```
>>> import ics
>>> d = ics.open_device()
>>> msgs, error_count = ics.get_messages(d)
>>> ics.get_timestamp_for_msg(d, msgs[0])
354577568.9145524
```

`ics.ics.icsneoClosePort()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.close_device()` method.

---

`ics.ics.icsneoEnableBusVoltageMonitor()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.enable_bus_voltage_monitor()` method.

---

`ics.ics.icsneoEnableNetworkCom()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.enable_network_com()` method.

---

`ics.ics.icsneoFindNeoDevices()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.find_devices()` method.

---

`ics.ics.icsneoFirmwareUpdateRequired()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.firmware_update_required()` method.

---

`ics.ics.icsneoForceFirmwareUpdate()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.force_firmware_update()` method.

---

`ics.ics.icsneoGetActiveVNETChannel()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_active_vnet_channel()` method.

---

`ics.ics.icsneoGetBackupPowerEnabled()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_backup_power_enabled()` method.

---

`ics.ics.icsneoGetBackupPowerReady()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_backup_power_ready()` method.

---

`ics.ics.icsneoGetBusVoltage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_bus_voltage()` method.

---

`ics.ics.icsneoGetDLLFirmwareInfo()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_dll_firmware_info()` method.

---

`ics.ics.icsneoGetDLLVersion()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_dll_version()` method.

---

`ics.ics.icsneoGetDeviceSettings()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_device_settings()` method.

---

`ics.ics.icsneoGetDeviceStatus()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_device_status()` method.

---

`ics.ics.icsneoGetErrorMessages()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_error_messages()` method.

---

`ics.ics.icsneoGetHWFirmwareInfo()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_hw_firmware_info()` method.

---

`ics.ics.icsneoGetLastError()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_last_api_error()` method.

---

`ics.ics.icsneoGetMessages()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_messages()` method.

---

`ics.ics.icsneoGetPerformanceParameters()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_performance_parameters()` method.

---

`ics.ics.icsneoGetRTC()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_rtc()` method.

---

`ics.ics.icsneoGetSerialNumber()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_serial_number()` method.

---

`ics.ics.icsneoGetTimeStampForMsg()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_timestamp_for_msg()` method.

---

`ics.ics.icsneoISO15765_DisableNetworks()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_disable_networks()` method.

---

`ics.ics.icsneoISO15765_EnableNetworks()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_enable_networks()` method.

---

`ics.ics.icsneoISO15765_ReceiveMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_receive_message()` method.

---

`ics.ics.icsneoISO15765_TransmitMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_transmit_message()` method.

---

`ics.ics.icsneoLoadDefaultSettings()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.load_default_settings()` method.

---

`ics.ics.icsneoOpenNeoDevice()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.open_device()` method.

---

`ics.ics.icsneoReadJupiterFirmware()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.read_jupiter_firmware()` method.

---

`ics.ics.icsneoReadSDCard()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.read_sdcard()` method.

---

`ics.ics.icsneoRequestDiskDetails()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_disk_details()` method.

---

`ics.ics.icsneoRequestDiskFormat()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.disk_format()` method.

---

`ics.ics.icsneoRequestDiskFormatCancel()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.disk_format_cancel()` method.

---

`ics.ics.icsneoRequestDiskFormatProgress()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_disk_format_progress()` method.

---

`ics.ics.icsneoRequestEnterSleepMode()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.request_enter_sleep_mode()` method.

---

`ics.ics.icsneoScriptClear()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_clear()` method.

---

`ics.ics.icsneoScriptGetFBlockStatus()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_get_fblock_status()` method.

---

`ics.ics.icsneoScriptGetScriptStatus()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_get_status()` method.

---

`ics.ics.icsneoScriptGetScriptStatusEx()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.get_script_status()` method.

---

`ics.ics.icsneoScriptLoad()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_load()` method.

---

`ics.ics.icsneoScriptReadAppSignal()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_read_app_signal()` method.

---

`ics.ics.icsneoScriptReadRxMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_read_rx_message()` method.

---

`ics.ics.icsneoScriptReadTxMessage()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_read_tx_message()` method.

---

`ics.ics.icsneoScriptStart()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_start()` method.

---

`ics.ics.icsneoScriptStartFBlock()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_start_fblock()` method.

---

`ics.ics.icsneoScriptStop()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_stop()` method.

---

`ics.ics.icsneoScriptStopFBlock()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_stop_fblock()` method.

---

`ics.ics.icsneoScriptWriteAppSignal()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.coremini_write_app_signal()` method.

---

`ics.ics.icsneoScriptWriteRxMessage()`



---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.coremini_write_rx_message()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	--

---

`ics.ics.icsneoScriptWriteTxMessage()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.coremini_write_tx_message()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	--

---

`ics.ics.icsneoSetActiveVNETChannel()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.set_active_vnet_channel()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	--

---

`ics.ics.icsneoSetBackupPowerEnabled()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.set_backup_power_enabled()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	---

---

`ics.ics.icsneoSetBitRate()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.set_bit_rate()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	---------------------------------------

---

`ics.ics.icsneoSetBitRateEx()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.set_bit_rate_ex()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	--

---

`ics.ics.icsneoSetContext()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.set_context()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	--------------------------------------

---

`ics.ics.icsneoSetDeviceSettings()`

---

<b>Note:</b>	Compatibility	Function:	Identical	to	PEP8	compliant	<i>ics.ics.set_device_settings()</i> method.
--------------	---------------	-----------	-----------	----	------	-----------	--

---

`ics.ics.icsneoSetFDBitRate()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_fd_bit_rate()` method.

---

`ics.ics.icsneoSetRTC()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_rtc()` method.

---

`ics.ics.icsneoSetReflashDisplayCallbacks()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.set_reflash_callback()` method.

---

`ics.ics.icsneoTxMessages()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.transmit_messages()` method.

---

`ics.ics.icsneoValidateHObject()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.validate_hobject()` method.

---

`ics.ics.icsneoWriteJupiterFirmware()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.write_jupiter_firmware()` method.

---

`ics.ics.icsneoWriteSDCard()`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.write_sdcard()` method.

---

`ics.ics.iso15765_disable_networks(device)`  
Disables ISO15765 networks.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

**Raises:** `ics.ics.RuntimeError`

**Returns:** None

`ics.ics.iso15765_enable_networks(device, networks)`  
Enables ISO15765 networks.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

**Raises:** `ics.ics.RuntimeError`

**Returns:** None

`ics.ics.iso15765_receive_message(device, netid, rx_msg)`  
Setup rx ISO15765 Message.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

prx\_msg (ics.ics.st\_cm\_iso157652\_rx\_message): ics.ics.  
st\_cm\_iso157652\_rx\_message

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

`ics.ics.iso15765_transmit_message(device, ulNetworkID, pMsg, ulBlockingTimeout)`  
Transmits an ISO15765 Message.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

pMsg (ics.ics.st\_cm\_iso157652\_tx\_message): ics.ics.  
st\_cm\_iso157652\_tx\_message

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

`ics.ics.load_default_settings(device)`  
Load the default settings in the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> device = ics.open_device()
>>> ics.load_default_settings(device)
>>>
```

`ics.ics.open_device(device)`

Opens the device. *device* can be omitted to return a *ics.ics.NeoDevice* of the first free available device, a *ics.ics.NeoDevice*, or a serial number of the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

device (int): Serial Number of the device

network\_ids (List/Tuple): This is an array of number IDs which specify the NetworkID parameter of each network. This allows you to assign a custom network ID to each network. Normally, you will assign consecutive IDs to each of the networks. See NetworkIDList for a list of current network ID's. You may also set this parameter to NULL (zero) and the default network ID's will be used.

bconfig\_read (int): Specifies whether the DLL should read the neoVI's device configuration before enabling the device. It is recommended that this value be set to 1.

options (int): DEVICE\_OPTION\_\* defines

network\_id (int): OptionsFindNeoEx.CANOptions.iNetworkID. Usually ics.NETID\_CAN, if needed

use\_server (int): Defaults to False, Setting to True allows opening the same device more than once.

**Raises:** *ics.ics.RuntimeError*

**Returns:** If *ics.ics.NeoDevice* is passed as a parameter, None. If serial number is passed as a parameter, a *ics.ics.NeoDevice* will be returned. If *device* parameter is omitted, a *ics.ics.NeoDevice* will be returned with the first available free device.

```
>>> for device in ics.find_devices():
...     ics.open_device(device)
... 
```

---

**Note:** `ics.ics.NeoDevice` will automatically close the device when it goes out of scope.

---

`ics.ics.override_library_name(new_name)`

Overrides the default search for loading the icsneo40 library

**Args:** name: Absolute path or relative path including filename.

**Raises:** `ics.ics.RuntimeError`

**Returns:** None

```
>>> import ics
>>> ics.find_devices()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ics.RuntimeError: Error: find_devices(): Failed to open library: 'icsneo40.dll
↳' with error code: #126
>>> ics.override_library_name(r"C:\Windows\SysWOW64\icsneo40-different.dll")
>>> ics.find_devices()
(<ics.NeoDevice object at 0x00284C50>, <ics.NeoDevice object at 0x007C9A10>)
```

`ics.ics.read_jupiter_firmware(device, size[, vnetChannel])`

Reads firmware binary from a RAD-Jupiter. If not sure, don't use this method

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

size (int): int: size of the bytes to read of the firmware binary.

vnetChannel (int): int: Optional. Don't set, if unsure.

**Raises:** `ics.ics.RuntimeError`

**Returns:** None

`ics.ics.read_sdcard()`

icsneoReadSDCard(), Accepts a `ics.ics.NeoDevice` and sector index. Returns a bytearray of 512 bytes max. Exception on error.

`ics.ics.request_enter_sleep_mode(device, timeout_ms, mode, reserved_zero)`

Signal neoVI to immediate go to sleep. Currently only supported by FIREVNET/PLASMA. If using over USB this will likely return true but never cause PLASMA to sleep since USB insertion keeps it alive. This API allows Android/Linux applications to invoke power management.

**Args:** device (`ics.ics.NeoDevice`): `ics.ics.NeoDevice`

timeout\_ms (int): 16bit word for how long to wait on idle bus before going to sleep. If caller does not want to change it pass in 65535 (0xFFFF) and it will stay whatever it was set to in explorer/coremini.

mode (int): 16bit word for power mode to enter. If caller does not want to change it pass in 65535 (0xFFFF) and it will stay whatever it was set to in explorer/coremini. If it is zero then neoVI will do 'normal sleep'. 0 - power mode off but calling this function will do 'normal sleep'. 1 - normal sleep. 2 - instant sleep. 3 - comatose sleep.

reserved\_zero (int): Reserved, Keep as zero.

**Raises:** `ics.ics.RuntimeError`

**Returns:** Boolean: True on success, False on failure.

```
>>> ics.request_enter_sleep_mode(device, 1, 0)
True
```

`ics.ics.set_active_vnet_channel(device, channel)`

Sets active vnet channel for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

`ics.ics.set_backup_power_enabled(device, enable)`

Sets the device backup power enabled for the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

`ics.ics.set_bit_rate(device, BitRate, NetworkID)`

Specifies bit rate setting. Valid values depend on the network specified.

For the networks NETID\_HSCAN, NETID\_MSCAN, NETID\_SWCAN, NETID\_FIRE\_HSCAN2, NETID\_HSCAN3, NETID\_LSFTCAN, valid bit rates are 2000, 33333, 50000, 62500, 83333, 100000, 125000, 250000, 500000, 800000, 1000000

For the networks NETID\_LIN, NETID\_ISO2, NETID\_FIRE\_LIN2, NETID\_FIRE\_LIN3, NETID\_FIRE\_LIN4, valid bit rates are

For the network NETID\_FIRE\_CGI valid bit rates are 625000 and 115200

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: None.

`ics.ics.set_bit_rate_ex(device, BitRate, NetworkID, iOptions)`

Sets the bitrate for a given Network ID on the device with extended options.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: None.

`ics.ics.set_context(device)`

Sets the “context” of how icsneoFindNeoDevices(Ex) and icsneoOpenNeoDevice(Ex) function. If the context is 0 (null) than icsneoFindNeoDevices(Ex) will be system wide, searching USB and other supported computer interfaces. icsneoFindNeoDevices can then be used to connect to devices found in this manner. If the context is a handle to connected CAN tool than icsneoFindNeoDevices(Ex) will search a specific CAN bus for supported IntrepidCS CAN Nodes. Again icsneoOpenNeoDevice(Ex) would be used create logical connections to found CAN Nodes.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True on success, False on failure.

```
>>> ics.set_context(device)
True
```

`ics.ics.set_device_settings(device, settings, save_to_eeprom, vnet_slot)`  
Sets the settings in the device. `vnet_slot` defaults to `ics.ics.PlasmaIonVnetChannelMain`

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

settings (*ics.ics.device\_settings*): *ics.ics.device\_settings*

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> d = ics.open_device()
>>> d.Name
'neoVI ION'
>>> d.SerialNumber
404444
>>> s = ics.get_device_settings(d, ics.PlasmaIonVnetChannelA) # Get Slave_
↳ settings, channel selection not needed if not a Plasma/Ion
>>> s.DeviceSettingType
2
>>> s.cyan.can_switch_mode
1
>>> s.cyan.can_switch_mode = 2
>>> ics.set_device_settings(d, s, True, ics.PlasmaIonVnetChannelA)
>>>
```

`ics.ics.set_fd_bit_rate(device, BitRate, NetworkID)`

Sets the FD bitrate for a given Network ID on the device..

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

**Raises:** *ics.ics.RuntimeError*

**Returns:** Int: None.

`ics.ics.set_reflash_callback(callback)`

Sets the reflash display callback.

**Args:** callback (function): Must be a callable Python function (*def callback(msg, progress)*)

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> def callback(msg, progress):
...     print(msg, progress)
...
>>> ics.set_reflash_callback(callback)
>>>
```

`ics.ics.set_rtc(device[, time])`

Sets the Real-Time Clock of the device.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

ime (*datetime.datetime*): Optional. Sets to current time, if omitted.

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> device = ics.open_device()
>>> ics.set_rtc(device)
```

**ics.ics.transmit\_messages** (*device*, *messages*)

Transmits message(s) on the device. *messages* can be a tuple of *ics.ics.SpyMessage*

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

messages (*ics.ics.SpyMessage*): *ics.ics.SpyMessage*

**Raises:** *ics.ics.RuntimeError*

**Returns:** None.

```
>>> device = ics.open_device()
>>> msg = ics.SpyMessage()
>>> msg.ArbIDOrHeader = 0xFF
>>> msg.NetworkID = ics.NETID_HSCAN
>>> msg.Data = (0,1,2,3,4,5,6,7)
>>> ics.transmit_messages(device, msg)
>>>
```

**ics.ics.validate\_hobject** (*device*)

Validates the handle is valid for a *device*. Handles are only valid when the device is open.

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

or:

device (int): c style integer handle to the device.

**Raises:** *ics.ics.RuntimeError*

**Returns:** Boolean: True if valid, false otherwise.

```
>>> device = ics.open_device()
>>> ics.validate_hobject(device)
1
>>> ics.validate_hobject(device._Handle)
1
```

**ics.ics.write\_jupiter\_firmware** (*device*, *bytes*[, *vnetChannel*])

Writes firmware binary to a RAD-Jupiter. If not sure, don't use this method

**Args:** device (*ics.ics.NeoDevice*): *ics.ics.NeoDevice*

bytes (bytes): bytes: bytes of the firmware binary.

vnetChannel (int): int: Optional. Don't set, if unsure.

**Raises:** *ics.ics.RuntimeError*

**Returns:** None

**ics.ics.write\_sdcard** ()

icsneoReadSDCard(), Accepts a *ics.ics.NeoDevice*, sector index, and a bytearray of 512 bytes. Exception on error.





## CHAPTER 8

---

### Module Functions

---

---

`ics.ISO15765_DisableNetworks`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_disable_networks()` method.

---

---

`ics.ISO15765_EnableNetworks`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_enable_networks()` method.

---

---

`ics.ISO15765_ReceiveMessage`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_receive_message()` method.

---

---

`ics.ISO15765_TransmitMessage`

---

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.iso15765_transmit_message()` method.

---

---

`ics.close_device(device)`

---

Closes the device.

---

`ics.coremini_clear(device, location)`

---

Clears the CoreMini into the device.

---

Continued on next page

Table 1 – continued from previous page

<code>ics.coremini_get_fblock_status(device, index)</code>	Gets the status of a Coremini Function Block at <i>index</i> on <i>device</i> .
<code>ics.coremini_get_status(device)</code>	Gets the status of the CoreMini in the device.
<code>ics.coremini_load(device, coremini, location)</code>	Loads the CoreMini into the device.
<code>ics.coremini_read_app_signal(device, index)</code>	Gets the value of a Coremini application signal at <i>index</i> on <i>device</i> .
<code>ics.coremini_read_rx_message(device, index)</code>	Gets the value of a Coremini Message at <i>index</i> on <i>device</i> .
<code>ics.coremini_read_tx_message(device, index)</code>	Gets the value of a Coremini Message at <i>index</i> on <i>device</i> .
<code>ics.coremini_start(device, location)</code>	Starts the CoreMini into the device.
<code>ics.coremini_start_fblock(device, index)</code>	Starts a Coremini Function Block at <i>index</i> on <i>device</i> .
<code>ics.coremini_stop(device)</code>	Stops the CoreMini into the device.
<code>ics.coremini_stop_fblock(device, index)</code>	Stops a Coremini Function Block at <i>index</i> on <i>device</i> .
<code>ics.coremini_write_app_signal(device, index, ...)</code>	Sets the value of a Coremini application signal at <i>index</i> on <i>device</i> .
<code>ics.coremini_write_rx_message(device, index, ...)</code>	TODO
<code>ics.coremini_write_tx_message(device, index, msg)</code>	TODO
<code>ics.create_neovi_radio_message(Relay1, ...)</code>	Python API only.
<code>ics.disk_format(device)</code>	Starts disk formatting on the device.
<code>ics.disk_format_cancel(device)</code>	Cancel in progress disk formatting on the device.
<code>ics.enable_bus_voltage_monitor(device, ...)</code>	Enable or disable bus voltage monitoring.
<code>ics.enable_network_com(device, enable, net_id)</code>	Enable or disable network communication.
<code>ics.find_devices([device_type])</code>	Finds all connected devices and returns a tuple of <code>ics.ics.NeoDevice</code> for use in <code>ics.ics.open_device()</code>
<code>ics.firmware_update_required(device)</code>	Determines if the device firmware needs flashing.
<code>ics.force_firmware_update(device)</code>	Forces the device to flash firmware.
<code>ics.get_active_vnet_channel(device)</code>	Gets active vnet channel for the device.
<code>ics.get_backup_power_enabled(device)</code>	Returns the device backup power enabled for the device.
<code>ics.get_backup_power_ready(device)</code>	Returns the device backup power is ready for the device.
<code>ics.get_bus_voltage(device, reserved)</code>	Reads bus voltage.
<code>ics.get_device_settings(device, device_type, ...)</code>	Gets the settings in the device.
<code>ics.get_device_status(device)</code>	Returns the device status.
<code>ics.get_disk_details(device)</code>	Returns the device disk details.
<code>ics.get_disk_format_progress(device)</code>	Returns the device disk formatting progress.
<code>ics.get_dll_firmware_info(device)</code>	Returns the DLL firmware info for the device.
<code>ics.get_dll_version(device)</code>	Gets the DLL version.
<code>ics.get_error_messages(device[, j1850, timeout])</code>	Gets the error message(s) on the device.
<code>ics.get_hw_firmware_info(device)</code>	Returns the device firmware info for the device.
<code>ics.get_last_api_error(device)</code>	Gets the error message from the last API call.
<code>ics.get_library_path</code>	
<code>ics.get_messages(device[, j1850, timeout])</code>	Gets the message(s) on the device.
<code>ics.get_performance_parameters(device)</code>	Gets the Performance Parameters on <i>device</i> .

Continued on next page

Table 1 – continued from previous page

<code>ics.get_rtc(device)</code>	Gets the Real-Time Clock of the device.
<code>ics.get_script_status</code>	Accepts a <code>ics.ics.NeoDevice</code> , exception on error.
<code>ics.get_serial_number(device)</code>	Gets the serial number out of the device.
<code>ics.get_timestamp_for_msg(device, msg)</code>	Calculates the timestamp for a message.
<code>ics.iso15765_disable_networks(device)</code>	Disables ISO15765 networks.
<code>ics.iso15765_enable_networks(device, networks)</code>	Enables ISO15765 networks.
<code>ics.iso15765_receive_message(device, netid, ...)</code>	Setup rx ISO15765 Message.
<code>ics.iso15765_transmit_message(device, ...)</code>	Transmits an ISO15765 Message.
<code>ics.load_default_settings(device)</code>	Load the default settings in the device.
<code>ics.open_device(device)</code>	Opens the device.
<code>ics.override_library_name(new_name)</code>	Overrides the default search for loading the <code>icsneo40</code> library
<code>ics.read_jupiter_firmware(device, size, ...)</code>	Reads firmware binary from a RAD-Jupiter.
<code>ics.read_sdcard</code>	<code>icsneoReadSDCard()</code> , Accepts a <code>ics.ics.NeoDevice</code> and sector index.
<code>ics.request_enter_sleep_mode(device, ...)</code>	Signal neoVI to immediate go to sleep.
<code>ics.set_active_vnet_channel(device, channel)</code>	Sets active vnet channel for the device.
<code>ics.set_backup_power_enabled(device, enable)</code>	Sets the device backup power enabled for the device.
<code>ics.set_bit_rate(device, BitRate, NetworkID)</code>	Specifies bit rate setting.
<code>ics.set_bit_rate_ex(device, BitRate, ...)</code>	Sets the bitrate for a given Network ID on the device with extended options.
<code>ics.set_context(device)</code>	Sets the “context” of how <code>icsneoFindNeoDevices(Ex)</code> and <code>icsneoOpenNeoDevice(Ex)</code> function.
<code>ics.set_device_settings(device, settings, ...)</code>	Sets the settings in the device.
<code>ics.set_fd_bit_rate(device, BitRate, NetworkID)</code>	Sets the FD bitrate for a given Network ID on the device..
<code>ics.set_reflash_callback(callback)</code>	Sets the reflash display callback.
<code>ics.set_rtc(device[, time])</code>	Sets the Real-Time Clock of the device.
<code>ics.transmit_messages(device, messages)</code>	Transmits message(s) on the device.
<code>ics.validate_hobject(device)</code>	Validates the handle is valid for a <i>device</i> .
<code>ics.write_jupiter_firmware(device, bytes, ...)</code>	Writes firmware binary to a RAD-Jupiter.
<code>ics.write_sdcard</code>	<code>icsneoReadSDCard()</code> , Accepts a <code>ics.ics.NeoDevice</code> , sector index, and a bytearray of 512 bytes.
<code>ics.ClosePort</code>	

**Note:** Compatibility Function: Identical to PEP8 compliant `ics.ics.close_device()` method.

Continued on next page

Table 1 – continued from previous page

<code>ics.EnableBusVoltageMonitor</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.enable_bus_voltage_monitor()</code> method. <hr/>
<code>ics.EnableNetworkCom</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.enable_network_com()</code> method. <hr/>
<code>ics.FindNeoDevices</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.find_devices()</code> method. <hr/>
<code>ics.FirmwareUpdateRequired</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.firmware_update_required()</code> method. <hr/>
<code>ics.ForceFirmwareUpdate</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.force_firmware_update()</code> method. <hr/>
<code>ics.GetActiveVNETChannel</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_active_vnet_channel()</code> method. <hr/>
<code>ics.GetBackupPowerEnabled</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_backup_power_enabled()</code> method. <hr/>

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Table 1 – continued from previous page

<code>ics.GetBackupPowerReady</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_backup_power_ready()</code> method.
<code>ics.GetBusVoltage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_bus_voltage()</code> method.
<code>ics.GetDLLFirmwareInfo</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_dll_firmware_info()</code> method.
<code>ics.GetDLLVersion</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_dll_version()</code> method.
<code>ics.GetDeviceSettings</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_device_settings()</code> method.
<code>ics.GetDeviceStatus</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_device_status()</code> method.
<code>ics.GetErrorMessages</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_error_messages()</code> method.

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Table 1 – continued from previous page

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<code>ics.GetHWFirmwareInfo</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_hw_firmware_info()</code> method. <hr/>
<code>ics.GetLastError</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_last_api_error()</code> method. <hr/>
<code>ics.GetMessages</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_messages()</code> method. <hr/>
<code>ics.GetPerformanceParameters</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_performance_parameters()</code> method. <hr/>
<code>ics.GetRTC</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_rtc()</code> method. <hr/>
<code>ics.GetSerialNumber</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_serial_number()</code> method. <hr/>
<code>ics.GetTimeStampForMsg</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_timestamp_for_msg()</code> method. <hr/>

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Table 1 – continued from previous page

<code>ics.LoadDefaultSettings</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.load_default_settings()</code> method.
<code>ics.OpenNeoDevice</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.open_device()</code> method.
<code>ics.ReadJupiterFirmware</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.read_jupiter_firmware()</code> method.
<code>ics.ReadSDCard</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.read_sdcard()</code> method.
<code>ics.RequestDiskDetails</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_disk_details()</code> method.
<code>ics.RequestDiskFormat</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.disk_format()</code> method.
<code>ics.RequestDiskFormatCancel</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.disk_format_cancel()</code> method.
<code>ics.RequestDiskFormatProgress</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_disk_format_progress()</code> method.

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Table 1 – continued from previous page

<code>ics.RequestEnterSleepMode</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.request_enter_sleep_mode()</code> method.
<code>ics.ScriptClear</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_clear()</code> method.
<code>ics.ScriptGetFBlockStatus</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_get_fblock_status()</code> method.
<code>ics.ScriptGetScriptStatus</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_get_status()</code> method.
<code>ics.ScriptGetScriptStatusEx</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_script_status()</code> method.
<code>ics.ScriptLoad</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_load()</code> method.
<code>ics.ScriptReadAppSignal</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_read_app_signal()</code> method.

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Table 1 – continued from previous page

<code>ics.ScriptReadRxMessage</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_read_rx_message()</code> method. <hr/>
<code>ics.ScriptReadTxMessage</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_read_tx_message()</code> method. <hr/>
<code>ics.ScriptStart</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_start()</code> method. <hr/>
<code>ics.ScriptStartFBlock</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_start_fblock()</code> method. <hr/>
<code>ics.ScriptStop</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_stop()</code> method. <hr/>
<code>ics.ScriptStopFBlock</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_stop_fblock()</code> method. <hr/>
<code>ics.ScriptWriteAppSignal</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_write_app_signal()</code> method. <hr/>

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Table 1 – continued from previous page

<code>ics.ScriptWriteRxMessage</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_write_rx_message()</code> method. <hr/>
<code>ics.ScriptWriteTxMessage</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_write_tx_message()</code> method. <hr/>
<code>ics.SetActiveVNETChannel</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_active_vnet_channel()</code> method. <hr/>
<code>ics.SetBackupPowerEnabled</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_backup_power_enabled()</code> method. <hr/>
<code>ics.SetBitRate</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_bit_rate()</code> method. <hr/>
<code>ics.SetBitRateEx</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_bit_rate_ex()</code> method. <hr/>
<code>ics.SetContext</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_context()</code> method. <hr/>

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<code>ics.SetDeviceSettings</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_device_settings()</code> method.
<code>ics.SetFDBitRate</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_fd_bit_rate()</code> method.
<code>ics.SetRTC</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_rtc()</code> method.
<code>ics.SetReflashDisplayCallback</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_reflash_callback()</code> method.
<code>ics.TxMessages</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.transmit_messages()</code> method.
<code>ics.ValidateHObject</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.validate_hobject()</code> method.
<code>ics.WriteJupiterFirmware</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.write_jupiter_firmware()</code> method.
<code>ics.WriteSDCard</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.write_sdcards()</code> method.
<code>ics.base36enc(serial)</code>	Converts a decimal serial number to base36.

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Table 1 – continued from previous page

<code>ics.icsneoClosePort</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.close_device()</code> method. <hr/>
<code>ics.icsneoEnableBusVoltageMonitor</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.enable_bus_voltage_monitor()</code> method. <hr/>
<code>ics.icsneoEnableNetworkCom</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.enable_network_com()</code> method. <hr/>
<code>ics.icsneoFindNeoDevices</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.find_devices()</code> method. <hr/>
<code>ics.icsneoFirmwareUpdateRequired</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.firmware_update_required()</code> method. <hr/>
<code>ics.icsneoForceFirmwareUpdate</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.force_firmware_update()</code> method. <hr/>
<code>ics.icsneoGetActiveVNETChannel</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_active_vnet_channel()</code> method. <hr/>

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Table 1 – continued from previous page

<code>ics.icsneoGetBackupPowerEnabled</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_backup_power_enabled()</code> method.
<code>ics.icsneoGetBackupPowerReady</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_backup_power_ready()</code> method.
<code>ics.icsneoGetBusVoltage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_bus_voltage()</code> method.
<code>ics.icsneoGetDLLFirmwareInfo</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_dll_firmware_info()</code> method.
<code>ics.icsneoGetDLLVersion</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_dll_version()</code> method.
<code>ics.icsneoGetDeviceSettings</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_device_settings()</code> method.
<code>ics.icsneoGetDeviceStatus</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_device_status()</code> method.

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Table 1 – continued from previous page

<code>ics.icsneoGetErrorMessages</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_error_messages()</code> method. <hr/>
<code>ics.icsneoGetHWFirmwareInfo</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_hw_firmware_info()</code> method. <hr/>
<code>ics.icsneoGetLastError</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_last_api_error()</code> method. <hr/>
<code>ics.icsneoGetMessages</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_messages()</code> method. <hr/>
<code>ics.icsneoGetPerformanceParameters</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_performance_parameters()</code> method. <hr/>
<code>ics.icsneoGetRTC</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_rtc()</code> method. <hr/>
<code>ics.icsneoGetSerialNumber</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_serial_number()</code> method. <hr/>

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Table 1 – continued from previous page

<code>ics.icsneoGetTimeStampForMsg</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_timestamp_for_msg()</code> method.
<code>ics.icsneoISO15765_DisableNetworks</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.iso15765_disable_networks()</code> method.
<code>ics.icsneoISO15765_EnableNetworks</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.iso15765_enable_networks()</code> method.
<code>ics.icsneoISO15765_ReceiveMessage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.iso15765_receive_message()</code> method.
<code>ics.icsneoISO15765_TransmitMessage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.iso15765_transmit_message()</code> method.
<code>ics.icsneoLoadDefaultSettings</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.load_default_settings()</code> method.
<code>ics.icsneoOpenNeoDevice</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.open_device()</code> method.

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<code>ics.icsneoReadJupiterFirmware</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.read_jupiter_firmware()</code> method.
<code>ics.icsneoReadSDCard</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.read_sdcard()</code> method.
<code>ics.icsneoRequestDiskDetails</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_disk_details()</code> method.
<code>ics.icsneoRequestDiskFormat</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.disk_format()</code> method.
<code>ics.icsneoRequestDiskFormatCancel</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.disk_format_cancel()</code> method.
<code>ics.icsneoRequestDiskFormatProgress</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_disk_format_progress()</code> method.
<code>ics.icsneoRequestEnterSleepMode</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.request_enter_sleep_mode()</code> method.
<code>ics.icsneoScriptClear</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_clear()</code> method.

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Table 1 – continued from previous page

<code>ics.icsneoScriptGetFBlockStatus</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_get_fblock_status()</code> method.
<code>ics.icsneoScriptGetScriptStatus</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_get_status()</code> method.
<code>ics.icsneoScriptGetScriptStatusEx</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.get_script_status()</code> method.
<code>ics.icsneoScriptLoad</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_load()</code> method.
<code>ics.icsneoScriptReadAppSignal</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_read_app_signal()</code> method.
<code>ics.icsneoScriptReadRxMessage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_read_rx_message()</code> method.
<code>ics.icsneoScriptReadTxMessage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_read_tx_message()</code> method.

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Table 1 – continued from previous page

<code>ics.icsneoScriptStart</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_start()</code> method.
<code>ics.icsneoScriptStartFBlock</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_start_fblock()</code> method.
<code>ics.icsneoScriptStop</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_stop()</code> method.
<code>ics.icsneoScriptStopFBlock</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_stop_fblock()</code> method.
<code>ics.icsneoScriptWriteAppSignal</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_write_app_signal()</code> method.
<code>ics.icsneoScriptWriteRxMessage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_write_rx_message()</code> method.
<code>ics.icsneoScriptWriteTxMessage</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.coremini_write_tx_message()</code> method.

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<code>ics.icsneoSetActiveVNETChannel</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_active_vnet_channel()</code> method.
<code>ics.icsneoSetBackupPowerEnabled</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_backup_power_enabled()</code> method.
<code>ics.icsneoSetBitRate</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_bit_rate()</code> method.
<code>ics.icsneoSetBitRateEx</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_bit_rate_ex()</code> method.
<code>ics.icsneoSetContext</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_context()</code> method.
<code>ics.icsneoSetDeviceSettings</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_device_settings()</code> method.
<code>ics.icsneoSetFDBitRate</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_fd_bit_rate()</code> method.
<code>ics.icsneoSetRTC</code>	<b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_rtc()</code> method.

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<code>ics.icsneoSetReflashDisplayCallbacks</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.set_reflash_callback()</code> method. <hr/>
<code>ics.icsneoTxMessages</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.transmit_messages()</code> method. <hr/>
<code>ics.icsneoValidateHObject</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.validate_hobject()</code> method. <hr/>
<code>ics.icsneoWriteJupiterFirmware</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.write_jupiter_firmware()</code> method. <hr/>
<code>ics.icsneoWriteSDCard</code>	<hr/> <b>Note:</b> Compatibility Function: Identical to PEP8 compliant <code>ics.ics.write_sdcard()</code> method. <hr/>

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### Module Structures

---

```
class ics.structures.can_settings.can_settings
```

```
    BRP  
        Structure/Union member
```

```
    Baudrate  
        Structure/Union member
```

```
    Mode  
        Structure/Union member
```

```
    SetBaudrate  
        Structure/Union member
```

```
    TqProp  
        Structure/Union member
```

```
    TqSeg1  
        Structure/Union member
```

```
    TqSeg2  
        Structure/Union member
```

```
    TqSync  
        Structure/Union member
```

```
    auto_baud  
        Structure/Union member
```

```
    innerFrameDelay25us  
        Structure/Union member
```

```
    transceiver_mode  
        Structure/Union member
```

```
class ics.structures.canfd_settings.canfd_settings
```

**FDBRP**  
Structure/Union member

**FDBaudrate**  
Structure/Union member

**FDMode**  
Structure/Union member

**FDTDC**  
Structure/Union member

**FDTqProp**  
Structure/Union member

**FDTqSeg1**  
Structure/Union member

**FDTqSeg2**  
Structure/Union member

**FDTqSync**  
Structure/Union member

**reserved**  
Structure/Union member

**class** ics.structures.canterm\_settings.canterm\_settings

**reserved**  
Structure/Union member

**term\_enabled**  
Structure/Union member

**term\_network**  
Structure/Union member

**class** ics.structures.disk\_settings.disk\_settings

**disk\_enables**  
Structure/Union member

**disk\_format**  
Structure/Union member

**disk\_layout**  
Structure/Union member

**rsvd**  
Structure/Union member

**class** ics.structures.e\_device\_settings\_type.e\_device\_settings\_type  
A ctypes-compatible IntEnum superclass.

**DeviceCANHUBSettingsType** = 19

**DeviceCMPProbeSettingsType** = 22

**DeviceECU\_AVBSettingsType** = 9

**DeviceEEVBSetsingsType** = 15

```
DeviceFire2SettingsType = 2
DeviceFire3SettingsType = 28
DeviceFireSettingsType = 0
DeviceFireVnetSettingsType = 1
DeviceFlexVnetzSettingsType = 18
DeviceIEVBSSettingsType = 20
DeviceNeoECU12SettingsType = 17
DeviceOBD2ProSettingsType = 23
DeviceOBD2SimSettingsType = 21
DeviceRADGalaxySettingsType = 4
DeviceRADGigalogSettingsType = 13
DeviceRADGigastarSettingsType = 26
DeviceRADJupiterSettingsType = 27
DeviceRADMoon2SettingsType = 11
DeviceRADPlutoSettingsType = 12
DeviceRADPlutoSwitchSettingsType = 25
DeviceRADStar2SettingsType = 5
DeviceRADSuperMoonSettingsType = 10
DeviceRadMoonDuoSettingsType = 29
DeviceRedSettingsType = 24
DeviceSettingsNone = 4294967295
DeviceSettingsTypeMax = 30
DeviceVCAN3SettingsType = 3
DeviceVCAN412SettingsType = 7
DeviceVCAN4IndSettingsType = 16
DeviceVCAN4SettingsType = 6
DeviceVCANRFSettingsType = 14
DeviceVividCANSSettingsType = 8

from_param = <bound method e_device_settings_type.from_param of <enum 'e_device_set

class ics.structures.e_disk_format.e_disk_format
    A ctypes-compatible IntEnum superclass.

    DiskFormatFAT32 = 1
    DiskFormatUnknown = 0
    DiskFormatexFAT = 2

    from_param = <bound method e_disk_format.from_param of <enum 'e_disk_format'>>

class ics.structures.e_disk_layout.e_disk_layout
    A ctypes-compatible IntEnum superclass.
```

```
DiskLayoutIndividual = 4
DiskLayoutRAID0 = 1
DiskLayoutRAID1 = 2
DiskLayoutRAID5 = 3
DiskLayoutSpanned = 0
from_param = <bound method e_disk_layout.from_param of <enum 'e_disk_layout'>>
class ics.structures.e_plasma_ion_vnet_channel_t.e_plasma_ion_vnet_channel_t
    A ctypes-compatible IntEnum superclass.
    PlasmaIonVnetChannelA = 1
    PlasmaIonVnetChannelB = 2
    PlasmaIonVnetChannelMain = 0
    eFpgaStatusResp = 4
    eSoftCore = 3
    from_param = <bound method e_plasma_ion_vnet_channel_t.from_param of <enum 'e_plasma_ion_vnet_channel_t'>>
class ics.structures.ethernet10_g_settings.ethernet10_g_settings
    flags
        Structure/Union member
    gateway
        Structure/Union member
    ip_addr
        Structure/Union member
    link_speed
        Structure/Union member
    netmask
        Structure/Union member
    rsvd2
        Structure/Union member
class ics.structures.ethernet_network_status_t.ethernet_network_status_t
    linkFullDuplex
        Structure/Union member
    linkMode
        Structure/Union member
    linkSpeed
        Structure/Union member
    linkStatus
        Structure/Union member
    networkId
        Structure/Union member
```



```
class ics.structures.ethernet_settings.ethernet_settings
```

```
    auto_neg  
        Structure/Union member
```

```
    duplex  
        Structure/Union member
```

```
    led_mode  
        Structure/Union member
```

```
    link_speed  
        Structure/Union member
```

```
    rsvd  
        Structure/Union member
```

```
class ics.structures.ethernet_settings2.ethernet_settings2
```

```
    flags  
        Structure/Union member
```

```
    gateway  
        Structure/Union member
```

```
    ip_addr  
        Structure/Union member
```

```
    link_speed  
        Structure/Union member
```

```
    netmask  
        Structure/Union member
```

```
    rsvd  
        Structure/Union member
```

```
class ics.structures.flex_vnet_mode.flex_vnet_mode
```

```
    A ctypes-compatible IntEnum superclass.
```

```
    flexVnetModeColdStart = 4
```

```
    flexVnetModeDisabled = 0
```

```
    flexVnetModeOneDual = 2
```

```
    flexVnetModeOneSingle = 1
```

```
    flexVnetModeTwoSingle = 3
```

```
    from_param = <bound method flex_vnet_mode.from_param of <enum 'flex_vnet_mode'>>
```

```
class ics.structures.global_settings.global_settings
```

```
    canhub  
        Structure/Union member
```

```
    chksum  
        Structure/Union member
```

```
    cmprobe  
        Structure/Union member
```

**cyan**  
Structure/Union member

**ecu**  
Structure/Union member

**eevb**  
Structure/Union member

**fire**  
Structure/Union member

**fire3**  
Structure/Union member

**firevnet**  
Structure/Union member

**flexvnetz**  
Structure/Union member

**ievb**  
Structure/Union member

**jupiter**  
Structure/Union member

**len**  
Structure/Union member

**neoecu12**  
Structure/Union member

**neoecu\_avb**  
Structure/Union member

**neoobd2\_sim**  
Structure/Union member

**obd2pro**  
Structure/Union member

**pendant**  
Structure/Union member

**pluto**  
Structure/Union member

**radgalaxy**  
Structure/Union member

**radgigalog**  
Structure/Union member

**radgigastar**  
Structure/Union member

**radmoon2**  
Structure/Union member

**radmoonduo**  
Structure/Union member

**radstar2**  
Structure/Union member

**radsupermoon**  
Structure/Union member

**red**  
Structure/Union member

**vcan3**  
Structure/Union member

**vcan4**  
Structure/Union member

**vcan412**  
Structure/Union member

**vcan4\_12**  
Structure/Union member

**vcan4\_ind**  
Structure/Union member

**vcanrf**  
Structure/Union member

**version**  
Structure/Union member

**vividcan**  
Structure/Union member

**class** ics.structures.ics\_device\_status.ics\_device\_status

**fire2Status**  
Structure/Union member

**fire3Status**  
Structure/Union member

**flexVnetzStatus**  
Structure/Union member

**jupiterStatus**  
Structure/Union member

**obd2proStatus**  
Structure/Union member

**plutoStatus**  
Structure/Union member

**radMoonDuoStatus**  
Structure/Union member

**vcan4Status**  
Structure/Union member

**vcan4indStatus**  
Structure/Union member

```
class ics.structures.ics_fire2_device_status.ics_fire2_device_status
```

```
    backupPowerEnabled
        Structure/Union member
```

```
    backupPowerGood
        Structure/Union member
```

```
    ethernetActivationLineEnabled
        Structure/Union member
```

```
    ethernetStatus
        Structure/Union member
```

```
    usbHostPowerEnabled
        Structure/Union member
```

```
class ics.structures.ics_fire2_vnet_device_status.ics_fire2_vnet_device_status
```

```
    ethernetActivationLineEnabled
        Structure/Union member
```

```
    ethernetStatus
        Structure/Union member
```

```
    unused
        Structure/Union member
```

```
class ics.structures.ics_fire3_device_status.ics_fire3_device_status
```

```
    ethernetActivationLineEnabled
        Structure/Union member
```

```
    ethernetStatus
        Structure/Union member
```

```
    unused
        Structure/Union member
```

```
class ics.structures.ics_flex_vnetz_device_status.ics_flex_vnetz_device_status
```

```
    ethernetActivationLineEnabled
        Structure/Union member
```

```
    ethernetStatus
        Structure/Union member
```

```
    unused
        Structure/Union member
```

```
class ics.structures.ics_obd2_pro_device_status.ics_obd2_pro_device_status
```

```
    ethernetStatus
        Structure/Union member
```

```
class ics.structures.ics_rad_jupiter_device_status.ics_rad_jupiter_device_status
```

**ethernetStatus**

Structure/Union member

```
class ics.structures.ics_rad_moon_duo_device_status.ics_rad_moon_duo_device_status
```

**ethernetStatus**

Structure/Union member

```
class ics.structures.ics_rad_pluto_device_status.ics_rad_pluto_device_status
```

**ethernetStatus**

Structure/Union member

```
class ics.structures.ics_spy_message_flex_ray.ics_spy_message_flex_ray
```

**AckBytes**

Structure/Union member

**ArbIDOrHeader**

Structure/Union member

**Data**

Structure/Union member

**DescriptionID**

Structure/Union member

**ExtraDataPtr**

Structure/Union member

**ExtraDataPtrEnabled**

Structure/Union member

**MessagePieceID**

Structure/Union member

**MiscData**

Structure/Union member

**NetworkID**

Structure/Union member

**NetworkID2**

Structure/Union member

**NodeID**

Structure/Union member

**NumberBytesData**

Structure/Union member

**NumberBytesHeader**

Structure/Union member

**Protocol**

Structure/Union member

**Reserved**

Structure/Union member

**StatusBitField**  
Structure/Union member

**StatusBitField2**  
Structure/Union member

**StatusBitField3**  
Structure/Union member

**StatusBitField4**  
Structure/Union member

**TimeHardware**  
Structure/Union member

**TimeHardware2**  
Structure/Union member

**TimeStampHardwareID**  
Structure/Union member

**TimeStampSystemID**  
Structure/Union member

**TimeSystem**  
Structure/Union member

**TimeSystem2**  
Structure/Union member

**chA**  
Structure/Union member

**chB**  
Structure/Union member

**cycle**  
Structure/Union member

**dynamic**  
Structure/Union member

**fcrc0**  
Structure/Union member

**fcrc1**  
Structure/Union member

**fcrc2**  
Structure/Union member

**frame\_len\_12\_5ns**  
Structure/Union member

**frame\_reserved**  
Structure/Union member

**hcrc\_lsbs**  
Structure/Union member

**hcrc\_msbs**  
Structure/Union member

**id**  
Structure/Union member

**null\_frame**  
Structure/Union member

**payload\_preamble**  
Structure/Union member

**res1**  
Structure/Union member

**res2**  
Structure/Union member

**startup**  
Structure/Union member

**sync**  
Structure/Union member

**tss\_len\_12\_5ns**  
Structure/Union member

**class** ics.structures.ics\_spy\_message\_long.ics\_spy\_message\_long

**AckBytes**  
Structure/Union member

**ArbIDOrHeader**  
Structure/Union member

**DataLsb**  
Structure/Union member

**DataMsb**  
Structure/Union member

**DescriptionID**  
Structure/Union member

**ExtraDataPtr**  
Structure/Union member

**ExtraDataPtrEnabled**  
Structure/Union member

**MessagePieceID**  
Structure/Union member

**MiscData**  
Structure/Union member

**NetworkID**  
Structure/Union member

**NetworkID2**  
Structure/Union member

**NodeID**  
Structure/Union member

**NumberBytesData**  
Structure/Union member

**NumberBytesHeader**  
Structure/Union member

**Protocol**  
Structure/Union member

**Reserved**  
Structure/Union member

**StatusBitField**  
Structure/Union member

**StatusBitField2**  
Structure/Union member

**StatusBitField3**  
Structure/Union member

**StatusBitField4**  
Structure/Union member

**TimeHardware**  
Structure/Union member

**TimeHardware2**  
Structure/Union member

**TimeStampHardwareID**  
Structure/Union member

**TimeStampSystemID**  
Structure/Union member

**TimeSystem**  
Structure/Union member

**TimeSystem2**  
Structure/Union member

**class** ics.structures.ics\_spy\_message\_vsb.ics\_spy\_message\_vsb

**AckBytes**  
Structure/Union member

**ArbIDOrHeader**  
Structure/Union member

**Data**  
Structure/Union member

**DescriptionID**  
Structure/Union member

**ExtraDataPtr**  
Structure/Union member

**ExtraDataPtrEnabled**  
Structure/Union member



**MessagePieceID**  
Structure/Union member

**MiscData**  
Structure/Union member

**NetworkID**  
Structure/Union member

**NetworkID2**  
Structure/Union member

**NodeID**  
Structure/Union member

**NumberBytesData**  
Structure/Union member

**NumberBytesHeader**  
Structure/Union member

**Protocol**  
Structure/Union member

**Reserved**  
Structure/Union member

**StatusBitField**  
Structure/Union member

**StatusBitField2**  
Structure/Union member

**StatusBitField3**  
Structure/Union member

**StatusBitField4**  
Structure/Union member

**TimeHardware**  
Structure/Union member

**TimeHardware2**  
Structure/Union member

**TimeStampHardwareID**  
Structure/Union member

**TimeStampSystemID**  
Structure/Union member

**TimeSystem**  
Structure/Union member

**TimeSystem2**  
Structure/Union member

**class** ics.structures.ics\_vcan4\_device\_status.ics\_vcan4\_device\_status

**ethernetActivationLineEnabled**  
Structure/Union member

**ethernetStatus**

Structure/Union member

**unused**

Structure/Union member

**class** ics.structures.ics\_vcan4\_industrial\_device\_status.ics\_vcan4\_industrial\_device\_st.

**ethernetStatus**

Structure/Union member

**class** ics.structures.iso15765\_2015\_tx\_message.iso15765\_2015\_tx\_message

**blockSize**

Structure/Union member

**data**

Structure/Union member

**ext\_address\_enable**

Structure/Union member

**extendedAddress**

Structure/Union member

**fc\_ext\_address\_enable**

Structure/Union member

**fc\_id**

Structure/Union member

**fc\_id\_29\_bit\_enable**

Structure/Union member

**fc\_id\_mask**

Structure/Union member

**flags**

Structure/Union member

**flowControlExtendedAddress**

Structure/Union member

**fs\_timeout**

Structure/Union member

**fs\_wait**

Structure/Union member

**id**

Structure/Union member

**id\_29\_bit\_enable**

Structure/Union member

**isBRSEnabled**

Structure/Union member

**iscanFD**

Structure/Union member

**num\_bytes**  
Structure/Union member

**overrideBlockSize**  
Structure/Union member

**overrideSTmin**  
Structure/Union member

**padding**  
Structure/Union member

**paddingEnable**  
Structure/Union member

**stMin**  
Structure/Union member

**tx\_dl**  
Structure/Union member

**tx\_index**  
Structure/Union member

**vs\_netid**  
Structure/Union member

**class** ics.structures.iso9141\_keyword2000\_init\_step.**iso9141\_keyword2000\_init\_step**

**k**  
Structure/Union member

**l**  
Structure/Union member

**time\_500us**  
Structure/Union member

**class** ics.structures.iso9141\_keyword2000\_settings.**iso9141\_keyword2000\_settings**

**Baudrate**  
Structure/Union member

**brgh**  
Structure/Union member

**chksum\_enabled**  
Structure/Union member

**init\_step\_count**  
Structure/Union member

**init\_steps**  
Structure/Union member

**p2\_500us**  
Structure/Union member

**p3\_500us**  
Structure/Union member

```
p4_500us
    Structure/Union member

spbrg
    Structure/Union member

class ics.structures.j1708_settings.j1708_settings

    enable_convert_mode
        Structure/Union member

class ics.structures.j2534_adapter_information.j2534_adapter_information

    Status
        Structure/Union member

    bIPV4_Address
        Structure/Union member

    bIPV6_Address
        Structure/Union member

    bMAC_Address
        Structure/Union member

    szDeviceName
        Structure/Union member

    szName
        Structure/Union member

class ics.structures.lin_settings.lin_settings

    Baudrate
        Structure/Union member

    MasterResistor
        Structure/Union member

    Mode
        Structure/Union member

    brgh
        Structure/Union member

    numBitsDelay
        Structure/Union member

    spbrg
        Structure/Union member

class ics.structures.logger_settings.logger_settings

    extraction_timeout
        Structure/Union member

    rsvd
        Structure/Union member
```

```
class ics.structures.op_eth_general_settings.op_eth_general_settings
```

```
    flags  
        Structure/Union member
```

```
    reserved0  
        Structure/Union member
```

```
    tapPair0  
        Structure/Union member
```

```
    tapPair1  
        Structure/Union member
```

```
    tapPair2  
        Structure/Union member
```

```
    tapPair3  
        Structure/Union member
```

```
    tapPair4  
        Structure/Union member
```

```
    tapPair5  
        Structure/Union member
```

```
    uFlags  
        Structure/Union member
```

```
    ucInterfaceType  
        Structure/Union member
```

```
class ics.structures.op_eth_link_mode.op_eth_link_mode
```

```
    A ctypes-compatible IntEnum superclass.
```

```
    OPETH_LINK_AUTO = 0
```

```
    OPETH_LINK_MASTER = 1
```

```
    OPETH_LINK_SLAVE = 2
```

```
    from_param = <bound method op_eth_link_mode.from_param of <enum 'op_eth_link_mode'>
```

```
class ics.structures.op_eth_settings.op_eth_settings
```

```
    link_spd  
        Structure/Union member
```

```
    mac_addr1  
        Structure/Union member
```

```
    mac_addr2  
        Structure/Union member
```

```
    mac_spoofing_en  
        Structure/Union member
```

```
    mac_spoofing_isDstOrSrc  
        Structure/Union member
```

```
    preemption_en  
        Structure/Union member
```

**q2112\_phy\_mode**  
Structure/Union member

**reserved**  
Structure/Union member

**reserved0**  
Structure/Union member

**ucConfigMode**  
Structure/Union member

**class** ics.structures.rad\_moon\_duo\_converter\_settings.rad\_moon\_duo\_converter\_settings

**converter1Mode**  
Structure/Union member

**ipAddress**  
Structure/Union member

**ipGateway**  
Structure/Union member

**ipMask**  
Structure/Union member

**linkMode0**  
Structure/Union member

**linkMode1**  
Structure/Union member

**class** ics.structures.rad\_reporting\_settings.rad\_reporting\_settings

**flags**  
Structure/Union member

**gps\_interval\_ms**  
Structure/Union member

**io\_interval\_ms**  
Structure/Union member

**rsvd**  
Structure/Union member

**serdes\_interval\_ms**  
Structure/Union member

**temp\_interval\_ms**  
Structure/Union member

**class** ics.structures.s\_cm\_probe\_settings.s\_cm\_probe\_settings

**network\_enabled\_on\_boot**  
Structure/Union member

**network\_enables**  
Structure/Union member

**class** ics.structures.s\_cyan\_settings.s\_cyan\_settings

**ain\_sample\_period**

Structure/Union member

**ain\_threshold**

Structure/Union member

**busMessagesToAndroid**

Structure/Union member

**can1**

Structure/Union member

**can2**

Structure/Union member

**can3**

Structure/Union member

**can4**

Structure/Union member

**can5**

Structure/Union member

**can6**

Structure/Union member

**can7**

Structure/Union member

**can8**

Structure/Union member

**can\_switch\_mode**

Structure/Union member

**canfd1**

Structure/Union member

**canfd2**

Structure/Union member

**canfd3**

Structure/Union member

**canfd4**

Structure/Union member

**canfd5**

Structure/Union member

**canfd6**

Structure/Union member

**canfd7**

Structure/Union member

**canfd8**

Structure/Union member

**digitalIoThresholdEnable**  
Structure/Union member

**digitalIoThresholdTicks**  
Structure/Union member

**disableUsbCheckOnBoot**  
Structure/Union member

**disk**  
Structure/Union member

**enableDefaultLogger**  
Structure/Union member

**enableDefaultUpload**  
Structure/Union member

**enableLatencyTest**  
Structure/Union member

**enablePcEthernetComm**  
Structure/Union member

**ethernet**  
Structure/Union member

**flags**  
Structure/Union member

**idle\_wakeup\_network\_enables\_1**  
Structure/Union member

**idle\_wakeup\_network\_enables\_2**  
Structure/Union member

**idle\_wakeup\_network\_enables\_3**  
Structure/Union member

**iso15765\_separation\_time\_offset**  
Structure/Union member

**iso9141\_kwp\_settings\_1**  
Structure/Union member

**iso9141\_kwp\_settings\_2**  
Structure/Union member

**iso9141\_kwp\_settings\_3**  
Structure/Union member

**iso9141\_kwp\_settings\_4**  
Structure/Union member

**iso\_9141\_kwp\_enable\_reserved**  
Structure/Union member

**iso\_msg\_termination\_1**  
Structure/Union member

**iso\_msg\_termination\_2**  
Structure/Union member



**iso\_msg\_termination\_3**  
Structure/Union member

**iso\_msg\_termination\_4**  
Structure/Union member

**iso\_parity\_1**  
Structure/Union member

**iso\_parity\_2**  
Structure/Union member

**iso\_parity\_3**  
Structure/Union member

**iso\_parity\_4**  
Structure/Union member

**lin1**  
Structure/Union member

**lin2**  
Structure/Union member

**lin3**  
Structure/Union member

**lin4**  
Structure/Union member

**lin5**  
Structure/Union member

**lin6**  
Structure/Union member

**lsftcan1**  
Structure/Union member

**lsftcan2**  
Structure/Union member

**misc\_io\_analog\_enable**  
Structure/Union member

**misc\_io\_initial\_ddr**  
Structure/Union member

**misc\_io\_initial\_latch**  
Structure/Union member

**misc\_io\_on\_report\_events**  
Structure/Union member

**misc\_io\_report\_period**  
Structure/Union member

**network\_enabled\_on\_boot**  
Structure/Union member

**network\_enables**  
Structure/Union member

**network\_enables\_2**  
Structure/Union member

**network\_enables\_3**  
Structure/Union member

**perf\_en**  
Structure/Union member

**pwr\_man\_enable**  
Structure/Union member

**pwr\_man\_timeout**  
Structure/Union member

**reserved**  
Structure/Union member

**slaveVnetA**  
Structure/Union member

**slaveVnetB**  
Structure/Union member

**swcan1**  
Structure/Union member

**swcan2**  
Structure/Union member

**termination\_enables**  
Structure/Union member

**text\_api**  
Structure/Union member

**timeSync**  
Structure/Union member

**class** ics.structures.s\_device\_settings.**s\_device\_settings**

**DeviceSettingType**  
Structure/Union member

**Settings**  
Structure/Union member

**canhub**  
Structure/Union member

**cmprobe**  
Structure/Union member

**cyan**  
Structure/Union member

**ecu**  
Structure/Union member

**eevb**  
Structure/Union member

**fire**  
Structure/Union member

**fire3**  
Structure/Union member

**firevnet**  
Structure/Union member

**flexvnetz**  
Structure/Union member

**ievb**  
Structure/Union member

**jupiter**  
Structure/Union member

**neoecu12**  
Structure/Union member

**neoecu\_avb**  
Structure/Union member

**neoobd2\_sim**  
Structure/Union member

**obd2pro**  
Structure/Union member

**pendant**  
Structure/Union member

**pluto**  
Structure/Union member

**plutoswitch**  
Structure/Union member

**radgalaxy**  
Structure/Union member

**radgigalog**  
Structure/Union member

**radgigastar**  
Structure/Union member

**radmoon2**  
Structure/Union member

**radmoon\_duo**  
Structure/Union member

**radstar2**  
Structure/Union member

**radsupermoon**  
Structure/Union member

**red**  
Structure/Union member

**vcan3**  
Structure/Union member

**vcan4**  
Structure/Union member

**vcan412**  
Structure/Union member

**vcan4\_12**  
Structure/Union member

**vcan4\_ind**  
Structure/Union member

**vcanrf**  
Structure/Union member

**vividcan**  
Structure/Union member

**class** ics.structures.s\_disk\_details.s\_disk\_details

**status**  
Structure/Union member

**structure**  
Structure/Union member

**class** ics.structures.s\_disk\_format\_progress.s\_disk\_format\_progress

**sectorsRemaining**  
Structure/Union member

**state**  
Structure/Union member

**class** ics.structures.s\_disk\_status.s\_disk\_status

**bytesPerSector**  
Structure/Union member

**sectors**  
Structure/Union member

**status**  
Structure/Union member

**class** ics.structures.s\_disk\_structure.s\_disk\_structure

**options**  
Structure/Union member

**settings**  
Structure/Union member

**class** ics.structures.s\_ext\_sub\_cmd\_comm.s\_ext\_sub\_cmd\_comm

**details**  
Structure/Union member

**hdr**  
Structure/Union member

**progress**  
Structure/Union member

**structure**  
Structure/Union member

**class** ics.structures.s\_ext\_sub\_cmd\_hdr.**s\_ext\_sub\_cmd\_hdr**

**cmd**  
Structure/Union member

**length**  
Structure/Union member

**class** ics.structures.s\_extended\_data\_flash\_header.**s\_extended\_data\_flash\_header**

**chksum**  
Structure/Union member

**len**  
Structure/Union member

**version**  
Structure/Union member

**class** ics.structures.s\_fire3\_settings.**s\_fire3\_settings**

**ain\_threshold**  
Structure/Union member

**busMessagesToAndroid**  
Structure/Union member

**can1**  
Structure/Union member

**can2**  
Structure/Union member

**can3**  
Structure/Union member

**can4**  
Structure/Union member

**can5**  
Structure/Union member

**can6**  
Structure/Union member

**can7**  
Structure/Union member

**can8**  
Structure/Union member

**canfd1**  
Structure/Union member

**canfd2**  
Structure/Union member

**canfd3**  
Structure/Union member

**canfd4**  
Structure/Union member

**canfd5**  
Structure/Union member

**canfd6**  
Structure/Union member

**canfd7**  
Structure/Union member

**canfd8**  
Structure/Union member

**digitalIoThresholdEnable**  
Structure/Union member

**digitalIoThresholdTicks**  
Structure/Union member

**disableUsbCheckOnBoot**  
Structure/Union member

**disk**  
Structure/Union member

**enableDefaultLogger**  
Structure/Union member

**enableDefaultUpload**  
Structure/Union member

**enableLatencyTest**  
Structure/Union member

**enablePcEthernetComm**  
Structure/Union member

**ethernet**  
Structure/Union member

**flags**  
Structure/Union member

**iso15765\_separation\_time\_offset**  
Structure/Union member

**iso9141\_kwp\_settings\_1**  
Structure/Union member

**iso9141\_kwp\_settings\_2**  
Structure/Union member

**iso\_msg\_termination\_1**  
Structure/Union member

**iso\_msg\_termination\_2**  
Structure/Union member

**iso\_parity\_1**  
Structure/Union member

**iso\_parity\_2**  
Structure/Union member

**lin1**  
Structure/Union member

**lin2**  
Structure/Union member

**misc\_io\_analog\_enable**  
Structure/Union member

**misc\_io\_initial\_ddr**  
Structure/Union member

**misc\_io\_initial\_latch**  
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**misc\_io\_on\_report\_events**  
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**misc\_io\_report\_period**  
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**pwr\_man\_timeout**  
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**slaveVnetA**  
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**can3**  
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**cgi\_tx\_ifs\_bit\_times**  
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**fast\_init\_network\_enables\_2**  
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**iso15765\_separation\_time\_offset**  
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**iso9141\_kwp\_enable\_reserved**  
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**iso9141\_kwp\_settings**  
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**iso9141\_kwp\_settings\_2**  
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**iso9141\_kwp\_settings\_3**  
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**iso9141\_kwp\_settings\_4**  
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**iso\_msg\_termination\_4**  
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**iso\_tester\_pullup\_enable**  
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**misc\_io\_report\_period**

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**neoMostGateway**

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**uart2**

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**vnetBits**

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**ain\_threshold**

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**can6**  
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**WriteEnable**  
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**clause22**  
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**clause45**  
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    port
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    version
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class ics.structures.s_pluto_avb_params_s.s_pluto_avb_params_s

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    srcmeta
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class ics.structures.s_pluto_clock_sync_params_s.s_pluto_clock_sync_params_s

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**inttosyncth**  
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**usbSelect**  
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**vlmask**  
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**pad2**  
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**pad3**  
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**poly**  
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**shared\_learn**  
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**fl\_domain**  
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**vlan\_pmap**  
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**part\_spc**  
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**vlanprio**  
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**vlan\_bc**  
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**pwr\_man\_enable**  
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**pwr\_man\_timeout**  
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**reserved**  
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**swcan1**  
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**termination\_enables**  
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**canfd1**  
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**can2**  
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**canfd1**  
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**iso\_parity\_2**  
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**uart2**  
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**class** ics.structures.seevb\_settings.seevb\_settings

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**resWidth**  
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**can2**  
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**iso\_msg\_termination\_2**  
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**can2**  
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**can3**  
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**pwr\_man\_timeout**  
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**can2**  
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**ByteDataMSB**  
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**ByteDataMaskLSB**  
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**ByteDataMaskMSB**  
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**Status2Value**  
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**StatusValue**  
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**can2**  
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**swcan1**  
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**swcan2**  
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**timeSyncSettings**  
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**serdescam4**  
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**serdespoc**  
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**disk**  
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**canfd1**  
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**disableUsbCheckOnBoot**  
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**iso\_tester\_pullup\_enable**  
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**network\_enabled\_on\_boot**  
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**port8Speed**  
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**opEthGen**  
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**pc\_com\_mode**  
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**class** ics.structures.srad\_pluto\_settings.srad\_pluto\_settings

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**misc\_io\_analog\_enable**

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**network\_enables\_3**

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**perf\_en**

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**pwr\_man\_timeout**

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**can2**

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**can\_switch\_mode**

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**canfd1**

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**canfd2**

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**misc\_io\_report\_period**  
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**opEth1**  
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**opEth2**  
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iBoardRevMinor
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iBootLoaderVersionMinor
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iPhySiliconRev
    Structure/Union member

iType
    Structure/Union member

class ics.structures.st_chip_versions.st_chip_versions
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**cmprobe\_versions**  
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**core\_maj**  
Structure/Union member

**core\_major**  
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**core\_min**  
Structure/Union member

**core\_minor**  
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**ext\_flash\_maj**  
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**ext\_flash\_min**  
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**fire3\_versions**  
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**fire\_versions**  
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**hid\_maj**  
Structure/Union member

**hid\_min**  
Structure/Union member

**jplic\_maj**  
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**jplic\_min**  
Structure/Union member

**jupiter\_versions**  
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**lplic\_maj**  
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**lplic\_min**  
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**mchip\_major**  
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**mchip\_minor**  
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**mpic\_maj**  
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**mpic\_min**  
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**neoecu\_avb\_versions**  
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**nrf52\_maj**  
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**nrf52\_min**  
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**obd2pro\_versions**  
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**plasma\_fire\_vnet**  
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**pluto\_versions**  
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**rad\_moon\_duo\_versions**  
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**radgalaxy\_versions**  
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**radgigalog3\_versions**  
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**radgigalog\_versions**  
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**radgigastar\_usbz\_versions**  
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**radgigastar\_versions**  
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**radmoon2\_versions**  
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**radstar2\_versions**  
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**radsupermoon\_versions**  
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**schip\_major**  
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**schip\_minor**  
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**upic\_maj**  
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**upic\_min**  
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**vcan3\_versions**  
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**vcan41\_versions**  
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**vcan42\_versions**  
Structure/Union member



**vcanrf\_versions**  
Structure/Union member

**vividcan\_versions**  
Structure/Union member

**zchip\_major**  
Structure/Union member

**zchip\_minor**  
Structure/Union member

**zynq\_core\_major**  
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**zynq\_core\_minor**  
Structure/Union member

**class** ics.structures.st\_cm\_iso157652\_rx\_message.st\_cm\_iso157652\_rx\_message

**blockSize**  
Structure/Union member

**cf\_timeout**  
Structure/Union member

**enableFlowControlTransmission**  
Structure/Union member

**ext\_address\_enable**  
Structure/Union member

**extendedAddress**  
Structure/Union member

**fc\_ext\_address\_enable**  
Structure/Union member

**fc\_id**  
Structure/Union member

**fc\_id\_29\_bit\_enable**  
Structure/Union member

**flags**  
Structure/Union member

**flowControlExtendedAddress**  
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**id**  
Structure/Union member

**id\_29\_bit\_enable**  
Structure/Union member

**id\_mask**  
Structure/Union member

**isBRSEnabled**  
Structure/Union member

**iscanFD**  
Structure/Union member

**padding**  
Structure/Union member

**paddingEnable**  
Structure/Union member

**reserved**  
Structure/Union member

**stMin**  
Structure/Union member

**vs\_netid**  
Structure/Union member

**class** ics.structures.st\_cm\_iso157652\_tx\_message.st\_cm\_iso157652\_tx\_message

**blockSize**  
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**data**  
Structure/Union member

**ext\_address\_enable**  
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**extendedAddress**  
Structure/Union member

**fc\_ext\_address\_enable**  
Structure/Union member

**fc\_id**  
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**fc\_id\_29\_bit\_enable**  
Structure/Union member

**fc\_id\_mask**  
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**flags**  
Structure/Union member

**flowControlExtendedAddress**  
Structure/Union member

**fs\_timeout**  
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**fs\_wait**  
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**id**  
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**id\_29\_bit\_enable**  
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**isBRSEnabled**  
Structure/Union member

**iscanFD**  
Structure/Union member

**num\_bytes**  
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**overrideBlockSize**  
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**overrideSTmin**  
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**padding**  
Structure/Union member

**paddingEnable**  
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**stMin**  
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**tx\_dl**  
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**tx\_index**  
Structure/Union member

**vs\_netid**  
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**class** ics.structures.svcan3\_settings.svcan3\_settings

**can1**  
Structure/Union member

**can2**  
Structure/Union member

**iso15765\_separation\_time\_offset**  
Structure/Union member

**misc\_io\_initial\_ddr**  
Structure/Union member

**misc\_io\_initial\_latch**  
Structure/Union member

**misc\_io\_on\_report\_events**  
Structure/Union member

**misc\_io\_report\_period**  
Structure/Union member

**network\_enabled\_on\_boot**  
Structure/Union member

**network\_enables**  
Structure/Union member

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    perf_en
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class ics.structures.svcan412_settings.svcan412_settings

    can1
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    can2
        Structure/Union member

    canfd1
        Structure/Union member

    canfd2
        Structure/Union member

    disableUsbCheckOnBoot
        Structure/Union member

    enableLatencyTest
        Structure/Union member

    flags
        Structure/Union member

    iso15765_separation_time_offset
        Structure/Union member

    network_enabled_on_boot
        Structure/Union member

    network_enables
        Structure/Union member

    perf_en
        Structure/Union member

    pwr_man_enable
        Structure/Union member

    pwr_man_timeout
        Structure/Union member

    reserved
        Structure/Union member

    termination_enables
        Structure/Union member

    text_api
        Structure/Union member

class ics.structures.svcan4_ind_settings.svcan4_ind_settings

    busMessagesToAndroid
        Structure/Union member

    can1
        Structure/Union member
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**can2**  
Structure/Union member

**canfd1**  
Structure/Union member

**canfd2**  
Structure/Union member

**disableUsbCheckOnBoot**  
Structure/Union member

**enableLatencyTest**  
Structure/Union member

**enablePcEthernetComm**  
Structure/Union member

**ethernet**  
Structure/Union member

**flags**  
Structure/Union member

**iso15765\_separation\_time\_offset**  
Structure/Union member

**iso9141\_kwp\_settings**  
Structure/Union member

**iso\_msg\_termination**  
Structure/Union member

**iso\_parity**  
Structure/Union member

**lin1**  
Structure/Union member

**network\_enabled\_on\_boot**  
Structure/Union member

**network\_enables**  
Structure/Union member

**network\_enables\_2**  
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**network\_enables\_3**  
Structure/Union member

**perf\_en**  
Structure/Union member

**pwr\_man\_enable**  
Structure/Union member

**pwr\_man\_timeout**  
Structure/Union member

**reserved**  
Structure/Union member

**termination\_enables**  
Structure/Union member

**word**  
Structure/Union member

**class** ics.structures.svcan4\_settings.**svcan4\_settings**

**can1**  
Structure/Union member

**can2**  
Structure/Union member

**can3**  
Structure/Union member

**can4**  
Structure/Union member

**canfd1**  
Structure/Union member

**canfd2**  
Structure/Union member

**canfd3**  
Structure/Union member

**canfd4**  
Structure/Union member

**enableLatencyTest**  
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**enablePcEthernetComm**  
Structure/Union member

**ethernet**  
Structure/Union member

**flags**  
Structure/Union member

**iso15765\_separation\_time\_offset**  
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**iso9141\_kwp\_settings\_1**  
Structure/Union member

**iso\_9141\_kwp\_enable\_reserved**  
Structure/Union member

**iso\_msg\_termination\_1**  
Structure/Union member

**iso\_parity\_1**  
Structure/Union member

**lin1**  
Structure/Union member

**network\_enabled\_on\_boot**

Structure/Union member

**network\_enables**

Structure/Union member

**network\_enables\_2**

Structure/Union member

**network\_enables\_3**

Structure/Union member

**perf\_en**

Structure/Union member

**pwr\_man\_enable**

Structure/Union member

**pwr\_man\_timeout**

Structure/Union member

**reserved**

Structure/Union member

**termination\_enables**

Structure/Union member

**text\_api**

Structure/Union member

**class** ics.structures.svcanrf\_settings.svcanrf\_settings

**can1**

Structure/Union member

**can2**

Structure/Union member

**can3**

Structure/Union member

**can4**

Structure/Union member

**disableFwLEDs**

Structure/Union member

**idle\_wakeup\_network\_enables\_1**

Structure/Union member

**idle\_wakeup\_network\_enables\_2**

Structure/Union member

**iso15765\_separation\_time\_offset**

Structure/Union member

**iso9141\_kwp\_enable\_reserved**

Structure/Union member

**iso9141\_kwp\_settings**

Structure/Union member

**iso9141\_kwp\_settings\_2**  
Structure/Union member

**iso\_msg\_termination**  
Structure/Union member

**iso\_msg\_termination\_2**  
Structure/Union member

**iso\_parity**  
Structure/Union member

**iso\_parity\_2**  
Structure/Union member

**iso\_tester\_pullup\_enable**  
Structure/Union member

**lin1**  
Structure/Union member

**lin2**  
Structure/Union member

**misc\_io\_analog\_enable**  
Structure/Union member

**misc\_io\_initial\_ddr**  
Structure/Union member

**misc\_io\_initial\_latch**  
Structure/Union member

**misc\_io\_on\_report\_events**  
Structure/Union member

**misc\_io\_report\_period**  
Structure/Union member

**network\_enabled\_on\_boot**  
Structure/Union member

**network\_enables**  
Structure/Union member

**network\_enables\_2**  
Structure/Union member

**perf\_en**  
Structure/Union member

**pwr\_man\_enable**  
Structure/Union member

**pwr\_man\_timeout**  
Structure/Union member

**reservedZero**  
Structure/Union member

**class** ics.structures.swcan\_settings.swcan\_settings



**BRP**  
Structure/Union member

**Baudrate**  
Structure/Union member

**Mode**  
Structure/Union member

**RESERVED**  
Structure/Union member

**SetBaudrate**  
Structure/Union member

**TqProp**  
Structure/Union member

**TqSeg1**  
Structure/Union member

**TqSeg2**  
Structure/Union member

**TqSync**  
Structure/Union member

**auto\_baud**  
Structure/Union member

**high\_speed\_auto\_switch**  
Structure/Union member

**transceiver\_mode**  
Structure/Union member

**class** ics.structures.tag\_options\_find\_neo\_ex.tag\_options\_find\_neo\_ex

**CANOptions**  
Structure/Union member

**Reserved**  
Structure/Union member

**iNetworkID**  
Structure/Union member

**class** ics.structures.tag\_options\_open\_neo\_ex.tag\_options\_open\_neo\_ex

**CANOptions**  
Structure/Union member

**Reserved**  
Structure/Union member

**iNetworkID**  
Structure/Union member

**class** ics.structures.tagicsneo\_vi\_command.tagicsneo\_vi\_command

**CommandByteLength**  
Structure/Union member

**CommandType**  
Structure/Union member

**Data**  
Structure/Union member

**class** ics.structures.timesync\_icshardware\_settings.timesync\_icshardware\_settings

**MasterEnable**  
Structure/Union member

**MasterNetwork**  
Structure/Union member

**SlaveEnable**  
Structure/Union member

**SlaveNetwork**  
Structure/Union member

**class** ics.structures.uart\_settings.uart\_settings

**Baudrate**  
Structure/Union member

**bOptions**  
Structure/Union member

**brgh**  
Structure/Union member

**flow\_control**  
Structure/Union member

**half\_duplex**  
Structure/Union member

**invert\_rx**  
Structure/Union member

**invert\_tx**  
Structure/Union member

**parity**  
Structure/Union member

**reserved\_1**  
Structure/Union member

**reserved\_bits**  
Structure/Union member

**reserved\_bits2**  
Structure/Union member

**spbrg**  
Structure/Union member

**stop\_bits**

Structure/Union member



## CHAPTER 10

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### Module Variables

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```
ics.ics.AUTO = 0
ics.ics.BPS100 = 5
ics.ics.BPS1000 = 10
ics.ics.BPS100000 = 7
ics.ics.BPS10400 = 1
ics.ics.BPS117647 = 8
ics.ics.BPS125 = 6
ics.ics.BPS20 = 0
ics.ics.BPS2000 = 12
ics.ics.BPS250 = 7
ics.ics.BPS33 = 1
ics.ics.BPS33333 = 2
ics.ics.BPS4000 = 13
ics.ics.BPS50 = 2
ics.ics.BPS500 = 8
ics.ics.BPS5000 = 0
ics.ics.BPS50000 = 3
ics.ics.BPS62 = 3
ics.ics.BPS62500 = 4
ics.ics.BPS666 = 11
ics.ics.BPS71429 = 5
ics.ics.BPS800 = 9
```

```
ics.ics.BPS83 = 4
ics.ics.BPS83333 = 6
ics.ics.BUILD_DATETIME = Apr 5 2021 10:56:06
ics.ics.CANFD_BRS_ENABLED = 2
ics.ics.CANFD_BRS_ENABLED_ISO = 4
ics.ics.CANFD_ENABLED = 1
ics.ics.CANFD_ENABLED_ISO = 3
ics.ics.CANFD_SETTINGS_SIZE = 10
ics.ics.CANNODE_STATUS_COREMINI_IS_RUNNING = 1
ics.ics.CANNODE_STATUS_IN_BOOTLOADER = 2
ics.ics.CANTERM_SETTINGS_SIZE = 6
ics.ics.CAN_BPS10000 = 17
ics.ics.CAN_BPS5000 = 14
ics.ics.CAN_BPS6667 = 15
ics.ics.CAN_BPS8000 = 16
ics.ics.CAN_SETTINGS_SIZE = 12
ics.ics.DISABLE = 1
ics.ics.DISK_SETTINGS_SIZE = 14
ics.ics.DISK_STATUS_FLAG_INITIALIZED = 2
ics.ics.DISK_STATUS_FLAG_PRESENT = 1
ics.ics.DISK_STRUCTURE_FLAG_FULL_FORMAT = 1
ics.ics.ETHERNET10G_SETTINGS_SIZE = 24
ics.ics.ETHERNET_SETTINGS10G_FLAG_AUTO_NEG = 2
ics.ics.ETHERNET_SETTINGS10G_FLAG_COMM_IN_USE = -2147483648
ics.ics.ETHERNET_SETTINGS10G_FLAG_DEVICE_HOSTING_ENABLE = 16
ics.ics.ETHERNET_SETTINGS10G_FLAG_FULL_DUPLEX = 1
ics.ics.ETHERNET_SETTINGS10G_FLAG_RTSP_ENABLE = 8
ics.ics.ETHERNET_SETTINGS10G_FLAG_TCPIP_ENABLE = 4
ics.ics.ETHERNET_SETTINGS2_FLAG_AUTO_NEG = 2
ics.ics.ETHERNET_SETTINGS2_FLAG_COMM_IN_USE = 128
ics.ics.ETHERNET_SETTINGS2_FLAG_DEVICE_HOSTING_ENABLE = 16
ics.ics.ETHERNET_SETTINGS2_FLAG_FULL_DUPLEX = 1
ics.ics.ETHERNET_SETTINGS2_FLAG_RTSP_ENABLE = 8
ics.ics.ETHERNET_SETTINGS2_FLAG_TCPIP_ENABLE = 4
ics.ics.ETHERNET_SETTINGS2_SIZE = 16
ics.ics.ETHERNET_SETTINGS_SIZE = 8
```

```
ics.ics.FAST_MODE = 3
ics.ics.GLOBAL_SETTINGS_SIZE = 926
ics.ics.GS_VERSION = 5
ics.ics.HARDWARE_TIMESTAMP_ID_AVT_716 = 2
ics.ics.HARDWARE_TIMESTAMP_ID_AVT_717 = 5
ics.ics.HARDWARE_TIMESTAMP_ID_DOUBLE_SEC = 7
ics.ics.HARDWARE_TIMESTAMP_ID_NEORED_10NS = 10
ics.ics.HARDWARE_TIMESTAMP_ID_NEORED_10US = 8
ics.ics.HARDWARE_TIMESTAMP_ID_NEORED_25NS = 9
ics.ics.HARDWARE_TIMESTAMP_ID_NEOVI = 4
ics.ics.HARDWARE_TIMESTAMP_ID_NI_CAN = 3
ics.ics.HARDWARE_TIMESTAMP_ID_NONE = 0
ics.ics.HARDWARE_TIMESTAMP_ID_VSI = 1
ics.ics.ISO15765_2_NETWORK_HSCAN = 1
ics.ics.ISO15765_2_NETWORK_HSCAN2 = 4
ics.ics.ISO15765_2_NETWORK_HSCAN3 = 8
ics.ics.ISO15765_2_NETWORK_HSCAN4 = 20
ics.ics.ISO15765_2_NETWORK_HSCAN5 = 24
ics.ics.ISO15765_2_NETWORK_HSCAN6 = 28
ics.ics.ISO15765_2_NETWORK_HSCAN7 = 32
ics.ics.ISO15765_2_NETWORK_MSCAN = 2
ics.ics.ISO15765_2_NETWORK_SWCAN = 16
ics.ics.ISO15765_2_NETWORK_SWCAN2 = 36
ics.ics.ISO9141_KEYWORD2000_SETTINGS_SIZE = 114
ics.ics.ISO9141_KEYWORD2000__INIT_STEP_SIZE = 6
ics.ics.J1708_SETTINGS_SIZE = 2
ics.ics.LIN_SETTINGS_SIZE = 10
ics.ics.LISTEN_ALL = 7
ics.ics.LISTEN_ONLY = 3
ics.ics.LOGGER_SETTINGS_SIZE = 4
ics.ics.LOOPBACK = 2
ics.ics.MAIN_VNET = 1
ics.ics.MAX_NUMBYTES_PHYSETTINGS = 512
ics.ics.MAX_PHY_REG_PKT_ENTRIES = 128
ics.ics.MAX_PHY_SETTINGS_STRUCT = 128
ics.ics.MAX_VL_FORWARDING_ENTRIES = 1024
```

```
ics.ics.MAX_VL_POLICING_ENTRIES = 1024
ics.ics.NEODEVICE_ANY_ION = 262144
ics.ics.NEODEVICE_ANY_PLASMA = 4096
ics.ics.NEODEVICE_BLUE = 1
ics.ics.NEODEVICE_CMPROBE = 8388608
ics.ics.NEODEVICE_CT_OBD = 32768
ics.ics.NEODEVICE_DONT_REUSE0 = 8192
ics.ics.NEODEVICE_DONT_REUSE1 = 65536
ics.ics.NEODEVICE_DONT_REUSE2 = 131072
ics.ics.NEODEVICE_DONT_REUSE3 = 1048576
ics.ics.NEODEVICE_DW_VCAN = 4
ics.ics.NEODEVICE_ECU = 128
ics.ics.NEODEVICE_ECU22 = 21
ics.ics.NEODEVICE_ECUCHIP_UART = 2048
ics.ics.NEODEVICE_ECU_AVB = 2
ics.ics.NEODEVICE_EEVB = 16777216
ics.ics.NEODEVICE_FIRE = 8
ics.ics.NEODEVICE_FIRE2 = 67108864
ics.ics.NEODEVICE_FIRE3 = 15
ics.ics.NEODEVICE_FLEX = 134217728
ics.ics.NEODEVICE_GIGASTAR = 19
ics.ics.NEODEVICE_IEVB = 256
ics.ics.NEODEVICE_ION = 262144
ics.ics.NEODEVICE_NEOANALOG = 16384
ics.ics.NEODEVICE_NEOECU12 = 12
ics.ics.NEODEVICE_NEOECUCHIP = 256
ics.ics.NEODEVICE_OBD2_LCBADGE = 13
ics.ics.NEODEVICE_OBD2_PRO = 1024
ics.ics.NEODEVICE_OBD2_SIM = -2147483648
ics.ics.NEODEVICE_PENDANT = 512
ics.ics.NEODEVICE_PLASMA = 4096
ics.ics.NEODEVICE_RADGALAXY = 268435456
ics.ics.NEODEVICE_RADGIGALOG = 6
ics.ics.NEODEVICE_RADIO_CANHUB = 11
ics.ics.NEODEVICE_RADJUPITER = 17
ics.ics.NEODEVICE_RADMOON2 = 5
```



```
ics.ics.NEODEVICE_RADPLUTO = 9
ics.ics.NEODEVICE_RADSTAR = 524288
ics.ics.NEODEVICE_RADSTAR2 = 536870912
ics.ics.NEODEVICE_RADSUPERMOON = 3
ics.ics.NEODEVICE_RAD_MOON_DUO = 14
ics.ics.NEODEVICE_RED = 64
ics.ics.NEODEVICE_RED2 = 20
ics.ics.NEODEVICE_UNKNOWN = 0
ics.ics.NEODEVICE_VCAN3 = 16
ics.ics.NEODEVICE_VCAN41 = 7
ics.ics.NEODEVICE_VCAN42 = 4194304
ics.ics.NEODEVICE_VCAN42_EL = 10
ics.ics.NEODEVICE_VCAN44 = 2097152
ics.ics.NEODEVICE_VCAN4_IND = 18
ics.ics.NEODEVICE_VCANRF = 33554432
ics.ics.NEODEVICE_VIVIDCAN = 1073741824
ics.ics.NEOVI6_VCAN_TIMESTAMP_1 = 1e-06
ics.ics.NEOVI6_VCAN_TIMESTAMP_2 = 0.065536
ics.ics.NEOVIPRO_VCAN_TIMESTAMP_1 = 1e-06
ics.ics.NEOVIPRO_VCAN_TIMESTAMP_2 = 0.065536
ics.ics.NEOVI_3G_MAX_SETTINGS_SIZE = 926
ics.ics.NEOVI_COMMTYPE_FIRE_USB = 5
ics.ics.NEOVI_COMMTYPE_RS232 = 0
ics.ics.NEOVI_COMMTYPE_TCPIP = 3
ics.ics.NEOVI_COMMTYPE_USB_BULK = 1
ics.ics.NEOVI_RED_TIMESTAMP_1_10NS = 1e-08
ics.ics.NEOVI_RED_TIMESTAMP_1_25NS = 2.5e-08
ics.ics.NEOVI_RED_TIMESTAMP_2_10NS = 429.4967296
ics.ics.NEOVI_RED_TIMESTAMP_2_25NS = 107.3741824
ics.ics.NEOVI_TIMESTAMP_1 = 1.6e-06
ics.ics.NEOVI_TIMESTAMP_2 = 0.1048576
ics.ics.NEO_CFG_MPIC_HS_CAN_CNF1 = 522
ics.ics.NEO_CFG_MPIC_HS_CAN_CNF2 = 521
ics.ics.NEO_CFG_MPIC_HS_CAN_CNF3 = 520
ics.ics.NEO_CFG_MPIC_HS_CAN_MODE = 566
ics.ics.NEO_CFG_MPIC_LSFT_CAN_CNF1 = 558
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```
ics.ics.NEO_CFG_MPIC_LSFT_CAN_CNF2 = 557
ics.ics.NEO_CFG_MPIC_LSFT_CAN_CNF3 = 556
ics.ics.NEO_CFG_MPIC_MS_CAN_CNF1 = 534
ics.ics.NEO_CFG_MPIC_MS_CAN_CNF2 = 533
ics.ics.NEO_CFG_MPIC_MS_CAN_CNF3 = 532
ics.ics.NEO_CFG_MPIC_SW_CAN_CNF1 = 546
ics.ics.NEO_CFG_MPIC_SW_CAN_CNF2 = 545
ics.ics.NEO_CFG_MPIC_SW_CAN_CNF3 = 544
ics.ics.NETID_3G_APP_SIGNAL_STATUS = 56
ics.ics.NETID_3G_FB_STATUS = 55
ics.ics.NETID_3G_LOGGING_OVERFLOW = 59
ics.ics.NETID_3G_READ_DATALINK_CM_RX_MSG = 58
ics.ics.NETID_3G_READ_DATALINK_CM_TX_MSG = 57
ics.ics.NETID_3G_READ_SETTINGS_EX = 60
ics.ics.NETID_3G_RESET_STATUS = 54
ics.ics.NETID_AUTOSAR = 515
ics.ics.NETID_AUX = 7
ics.ics.NETID_CGI = 53
ics.ics.NETID_DATA_TO_HOST = 70
ics.ics.NETID_DEVICE = 0
ics.ics.NETID_DEVICE_STATUS = 513
ics.ics.NETID_ETHERNET = 93
ics.ics.NETID_ETHERNET2 = 520
ics.ics.NETID_ETHERNET_DAQ = 69
ics.ics.NETID_FLEXRAY = 85
ics.ics.NETID_FLEXRAY1A = 80
ics.ics.NETID_FLEXRAY1B = 81
ics.ics.NETID_FLEXRAY2 = 86
ics.ics.NETID_FLEXRAY2A = 82
ics.ics.NETID_FLEXRAY2B = 83
ics.ics.NETID_FORDSCP = 5
ics.ics.NETID_FORWARDED_MESSAGE = 516
ics.ics.NETID_GMFSA = 94
ics.ics.NETID_HSCAN = 1
ics.ics.NETID_HSCAN2 = 42
ics.ics.NETID_HSCAN3 = 44
```

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ics.ics.NETID_HSCAN4 = 61
ics.ics.NETID_HSCAN5 = 62
ics.ics.NETID_HSCAN6 = 96
ics.ics.NETID_HSCAN7 = 97
ics.ics.NETID_HW_COM_LATENCY_TEST = 512
ics.ics.NETID_I2C1 = 88
ics.ics.NETID_I2C2 = 517
ics.ics.NETID_I2C3 = 518
ics.ics.NETID_I2C4 = 519
ics.ics.NETID_INVALID = 65535
ics.ics.NETID_ISO = 9
ics.ics.NETID_ISO14230 = 15
ics.ics.NETID_ISO2 = 14
ics.ics.NETID_ISO3 = 41
ics.ics.NETID_ISO4 = 47
ics.ics.NETID_ISOPIC = 10
ics.ics.NETID_J1708 = 6
ics.ics.NETID_JVPW = 8
ics.ics.NETID_LIN = 16
ics.ics.NETID_LIN2 = 48
ics.ics.NETID_LIN3 = 49
ics.ics.NETID_LIN4 = 50
ics.ics.NETID_LIN5 = 84
ics.ics.NETID_LIN6 = 98
ics.ics.NETID_LSFTCAN = 4
ics.ics.NETID_LSFTCAN2 = 99
ics.ics.NETID_MAIN51 = 11
ics.ics.NETID_MAX = 100
ics.ics.NETID_MOST = 51
ics.ics.NETID_MOST150 = 92
ics.ics.NETID_MOST25 = 90
ics.ics.NETID_MOST50 = 91
ics.ics.NETID_MSCAN = 2
ics.ics.NETID_OP_ETHERNET1 = 17
ics.ics.NETID_OP_ETHERNET10 = 78
ics.ics.NETID_OP_ETHERNET11 = 79
```

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ics.ics.NETID_OP_ETHERNET12 = 87
ics.ics.NETID_OP_ETHERNET2 = 18
ics.ics.NETID_OP_ETHERNET3 = 19
ics.ics.NETID_OP_ETHERNET4 = 45
ics.ics.NETID_OP_ETHERNET5 = 46
ics.ics.NETID_OP_ETHERNET6 = 73
ics.ics.NETID_OP_ETHERNET7 = 75
ics.ics.NETID_OP_ETHERNET8 = 76
ics.ics.NETID_OP_ETHERNET9 = 77
ics.ics.NETID_RED = 12
ics.ics.NETID_RED_APP_ERROR = 52
ics.ics.NETID_RED_VBAT = 74
ics.ics.NETID_RS232 = 63
ics.ics.NETID_SCI = 13
ics.ics.NETID_SPI1 = 72
ics.ics.NETID_SWCAN = 3
ics.ics.NETID_SWCAN2 = 68
ics.ics.NETID_TCP = 95
ics.ics.NETID_TEXTAPI_TO_HOST = 71
ics.ics.NETID_UART = 64
ics.ics.NETID_UART2 = 65
ics.ics.NETID_UART3 = 66
ics.ics.NETID_UART4 = 67
ics.ics.NETID_UDP = 514
ics.ics.NORMAL = 0
ics.ics.NORMAL_MODE = 2
ics.ics.NO_CANFD = 0
ics.ics.OPETH_FUNC_MEDIACONVERTER = 1
ics.ics.OPETH_FUNC_RAW_MEDIA_CONVERTER = 3
ics.ics.OPETH_FUNC_TAP = 0
ics.ics.OPETH_FUNC_TAP_LOW_LATENCY = 2
ics.ics.OPETH_LINK_AUTO = 0
ics.ics.OPETH_LINK_MASTER = 1
ics.ics.OPETH_LINK_SLAVE = 2
ics.ics.OPETH_MAC_SPOOF_DST_ADDR = 0
ics.ics.OPETH_MAC_SPOOF_SRC_ADDR = 1
```

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ics.ics.OP_ETH_GENERAL_SETTINGS_SIZE = 20
ics.ics.OP_ETH_SETTINGS_SIZE = 16
ics.ics.PHY_REG_PKT_VERSION = 1
ics.ics.PLASMA_SLAVE1_OFFSET = 100
ics.ics.PLASMA_SLAVE1_OFFSET_RANGE2 = 4608
ics.ics.PLASMA_SLAVE2_OFFSET = 200
ics.ics.PLASMA_SLAVE2_OFFSET_RANGE2 = 8704
ics.ics.PLASMA_SLAVE3_OFFSET_RANGE2 = 12800
ics.ics.PLASMA_SLAVE_NUM = 51
ics.ics.PLUTO_MAX_FORWARDING_ENTRIES = 13
ics.ics.PLUTO_MAX_L2_ADDRESS_LOOKUP = 1024
ics.ics.PLUTO_MAX_L2_POLICING = 45
ics.ics.PLUTO_MAX_MAC_CONFIG_ENTRIES = 5
ics.ics.PLUTO_MAX_RETAGGING_ENTRIES = 32
ics.ics.PLUTO_MAX_VLAN_LOOKUP = 4096
ics.ics.PLUTO_NUM_PRIORITY = 8
ics.ics.RADJUPITER_NUM_PORTS = 8
ics.ics.RADMOONDUO_CONVERTER_SETTINGS_SIZE = 16
ics.ics.RAD_REPORTING_SETTINGS_FLAG_AIN1 = 256
ics.ics.RAD_REPORTING_SETTINGS_FLAG_AIN2 = 512
ics.ics.RAD_REPORTING_SETTINGS_FLAG_INT_GPS_ENABLE = 4
ics.ics.RAD_REPORTING_SETTINGS_FLAG_MIC2_GPS_ENABLE = 2
ics.ics.RAD_REPORTING_SETTINGS_FLAG_MIC2_GPS_ENABLE2 = 8
ics.ics.RAD_REPORTING_SETTINGS_FLAG_MISC1_DIN = 16
ics.ics.RAD_REPORTING_SETTINGS_FLAG_MISC1_PWMIN = 64
ics.ics.RAD_REPORTING_SETTINGS_FLAG_MISC2_DIN = 32
ics.ics.RAD_REPORTING_SETTINGS_FLAG_MISC2_PWMIN = 128
ics.ics.RAD_REPORTING_SETTINGS_FLAG_TEMP_ENABLE = 1
ics.ics.RAD_REPORTING_SETTINGS_SIZE = 16
ics.ics.REPORT_ON_GPS = 15
ics.ics.REPORT_ON_KLINE = 9
ics.ics.REPORT_ON_LED1 = 7
ics.ics.REPORT_ON_LED2 = 8
ics.ics.REPORT_ON_MISC1 = 1
ics.ics.REPORT_ON_MISC2 = 2
ics.ics.REPORT_ON_MISC3 = 3
```

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ics.ics.REPORT_ON_MISC3_AIN = 10
ics.ics.REPORT_ON_MISC4 = 4
ics.ics.REPORT_ON_MISC4_AIN = 11
ics.ics.REPORT_ON_MISC5 = 5
ics.ics.REPORT_ON_MISC5_AIN = 12
ics.ics.REPORT_ON_MISC6 = 6
ics.ics.REPORT_ON_MISC6_AIN = 13
ics.ics.REPORT_ON_PERIODIC = 0
ics.ics.RESISTOR_OFF = 1
ics.ics.RESISTOR_ON = 0
ics.ics.SCRIPT_LOCATION_FLASH_MEM = 0
ics.ics.SCRIPT_LOCATION_INTERNAL_FLASH = 2
ics.ics.SCRIPT_LOCATION_SDCARD = 1
ics.ics.SCRIPT_LOCATION_VCAN3_MEM = 4
ics.ics.SCRIPT_STATUS_RUNNING = 1
ics.ics.SCRIPT_STATUS_STOPPED = 0
ics.ics.SERDESCAM_CONFIG_MODE_EXTERNAL_OVER_TAP = 0
ics.ics.SERDESCAM_CONFIG_MODE_LOCAL_SCRIPT = 1
ics.ics.SERDESCAM_MODE_PASSTHROUGH = 0
ics.ics.SERDESCAM_MODE_PLAYBACK = 2
ics.ics.SERDESCAM_MODE_TAP = 1
ics.ics.SERDESCAM_PIXEL_BIT_POS_0 = 0
ics.ics.SERDESCAM_PIXEL_BIT_POS_1 = 1
ics.ics.SERDESCAM_PIXEL_BIT_POS_2 = 2
ics.ics.SERDESCAM_PIXEL_BIT_POS_3 = 3
ics.ics.SERDESCAM_SETTINGS_AUTO_DETECT_ENABLE = 4
ics.ics.SERDESCAM_SETTINGS_CONFIG_ENABLE = 8
ics.ics.SERDESCAM_SETTINGS_FLAG_ENABLE = 1
ics.ics.SERDESCAM_SETTINGS_RTSP_ENABLE = 2
ics.ics.SERDESCAM_SETTINGS_SIZE = 32
ics.ics.SERDESCAM_VIDEO_FORMAT_BAYER_BGGR_10LE_PACKED = 19
ics.ics.SERDESCAM_VIDEO_FORMAT_BAYER_BGGR_12LE_PACKED = 20
ics.ics.SERDESCAM_VIDEO_FORMAT_BAYER_BGGR_16BE = 22
ics.ics.SERDESCAM_VIDEO_FORMAT_BAYER_BGGR_16LE = 21
ics.ics.SERDESCAM_VIDEO_FORMAT_BAYER_BGGR_8 = 4
ics.ics.SERDESCAM_VIDEO_FORMAT_COUNT = 65
```

```
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_BAYER_BGGR_10LE_PACKED = 51
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_BAYER_BGGR_12LE_PACKED = 52
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_BAYER_BGGR_8 = 50
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ics.ics.SERDESCAM_VIDEO_FORMAT_NONE = -1
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ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_12 = 7
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_14 = 34
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_16 = 8
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_20 = 9
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_24 = 10
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ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_30 = 11
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_32 = 12
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_36 = 13
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_8 = 5
ics.ics.SERDESCAM_VIDEO_FORMAT_RGB565 = 30
ics.ics.SERDESCAM_VIDEO_FORMAT_RGB666 = 31
ics.ics.SERDESCAM_VIDEO_FORMAT_RGB888 = 14
ics.ics.SERDESCAM_VIDEO_FORMAT_UYVY_422_10LE_PACKED = 15
ics.ics.SERDESCAM_VIDEO_FORMAT_UYVY_422_12LE_PACKED = 24
ics.ics.SERDESCAM_VIDEO_FORMAT_UYVY_422_8 = 0
ics.ics.SERDESCAM_VIDEO_FORMAT_VYUY_422_10LE_PACKED = 18
ics.ics.SERDESCAM_VIDEO_FORMAT_VYUY_422_12LE_PACKED = 27
ics.ics.SERDESCAM_VIDEO_FORMAT_VYUY_422_8 = 3
ics.ics.SERDESCAM_VIDEO_FORMAT_YUV422_10LE_PLANAR = 28
ics.ics.SERDESCAM_VIDEO_FORMAT_YUV422_16LE_PLANAR = 29
ics.ics.SERDESCAM_VIDEO_FORMAT_YUYV_422_10LE_PACKED = 16
ics.ics.SERDESCAM_VIDEO_FORMAT_YUYV_422_12LE_PACKED = 25
ics.ics.SERDESCAM_VIDEO_FORMAT_YUYV_422_8 = 1
ics.ics.SERDESCAM_VIDEO_FORMAT_YVYU_422_10LE_PACKED = 17
ics.ics.SERDESCAM_VIDEO_FORMAT_YVYU_422_12LE_PACKED = 26
ics.ics.SERDESCAM_VIDEO_FORMAT_YVYU_422_8 = 2
ics.ics.SERDESPOC_SETTINGS_MODE_DISABLED = 0
ics.ics.SERDESPOC_SETTINGS_MODE_SERIALIZER = 2
ics.ics.SERDESPOC_SETTINGS_MODE_SUPPLY = 1
ics.ics.SERDESPOC_SETTINGS_SIZE = 10
ics.ics.SLAVE_VNET_A = 2
ics.ics.SLAVE_VNET_B = 4
ics.ics.SLEEP_MODE = 0
ics.ics.SLOW_MODE = 1
ics.ics.SPY_PROTOCOL_AUTOSAR = 34
ics.ics.SPY_PROTOCOL_BEAN = 11
ics.ics.SPY_PROTOCOL_CAN = 1
ics.ics.SPY_PROTOCOL_CANFD = 30
ics.ics.SPY_PROTOCOL_CGI = 18
ics.ics.SPY_PROTOCOL_CHRYSLER_CCD = 8
ics.ics.SPY_PROTOCOL_CHRYSLER_JVPW = 14
```



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ics.ics.SPY_PROTOCOL_CHRYSLER_SCI = 9
ics.ics.SPY_PROTOCOL_CUSTOM = 0
ics.ics.SPY_PROTOCOL_DALLAS_1WIRE = 25
ics.ics.SPY_PROTOCOL_ETHERNET = 29
ics.ics.SPY_PROTOCOL_FLEXRAY = 16
ics.ics.SPY_PROTOCOL_FORD_UBP = 10
ics.ics.SPY_PROTOCOL_GENERIC_MANCHESTER = 26
ics.ics.SPY_PROTOCOL_GENERIC_UART = 22
ics.ics.SPY_PROTOCOL_GME_CIM_SCL_KLINE = 19
ics.ics.SPY_PROTOCOL_GMFS = 31
ics.ics.SPY_PROTOCOL_GMLAN = 2
ics.ics.SPY_PROTOCOL_GM_ALDL_UART = 7
ics.ics.SPY_PROTOCOL_I2C = 21
ics.ics.SPY_PROTOCOL_ISO9141 = 5
ics.ics.SPY_PROTOCOL_J1708 = 13
ics.ics.SPY_PROTOCOL_J1850PWM = 4
ics.ics.SPY_PROTOCOL_J1850VPW = 3
ics.ics.SPY_PROTOCOL_J1939 = 15
ics.ics.SPY_PROTOCOL_JTAG = 23
ics.ics.SPY_PROTOCOL_LIN = 12
ics.ics.SPY_PROTOCOL_MOST = 17
ics.ics.SPY_PROTOCOL_SENT_PROTOCOL = 27
ics.ics.SPY_PROTOCOL_SPI = 20
ics.ics.SPY_PROTOCOL_TCP = 32
ics.ics.SPY_PROTOCOL_UART = 28
ics.ics.SPY_PROTOCOL_UDP = 33
ics.ics.SPY_PROTOCOL_UNIO = 24
ics.ics.SPY_STATUS2_CAN_HAVE_LINK_DATA = 4194304
ics.ics.SPY_STATUS2_CAN_ISO15765_LOGICAL_FRAME = 2097152
ics.ics.SPY_STATUS2_END_OF_LONG_MESSAGE = 1048576
ics.ics.SPY_STATUS2_ERROR_FRAME = 131072
ics.ics.SPY_STATUS2_ETHERNET_CRC_ERROR = 2097152
ics.ics.SPY_STATUS2_ETHERNET_FCS_AVAILABLE = 8388608
ics.ics.SPY_STATUS2_ETHERNET_FRAME_TOO_SHORT = 4194304
ics.ics.SPY_STATUS2_ETHERNET_NO_PADDING = 16777216
ics.ics.SPY_STATUS2_ETHERNET_PREEMPTION_ENABLED = 33554432
```

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ics.ics.SPY_STATUS2_FLEXRAY_NO_CRC = 33554432
ics.ics.SPY_STATUS2_FLEXRAY_NO_HEADERCRC = 67108864
ics.ics.SPY_STATUS2_FLEXRAY_TX_AB = 2097152
ics.ics.SPY_STATUS2_FLEXRAY_TX_AB_NO_A = 4194304
ics.ics.SPY_STATUS2_FLEXRAY_TX_AB_NO_B = 8388608
ics.ics.SPY_STATUS2_FLEXRAY_TX_AB_NO_MATCH = 16777216
ics.ics.SPY_STATUS2_GLOBAL_CHANGE = 65536
ics.ics.SPY_STATUS2_HAS_VALUE = 1
ics.ics.SPY_STATUS2_HIGH_VOLTAGE = 4
ics.ics.SPY_STATUS2_I2C_DIR_READ = 8388608
ics.ics.SPY_STATUS2_I2C_ERR_NACK = 4194304
ics.ics.SPY_STATUS2_I2C_ERR_TIMEOUT = 2097152
ics.ics.SPY_STATUS2_ISO_FRAME_ERROR = 134217728
ics.ics.SPY_STATUS2_ISO_OVERFLOW_ERROR = 268435456
ics.ics.SPY_STATUS2_ISO_PARITY_ERROR = 536870912
ics.ics.SPY_STATUS2_LIN_ERR_MSG_ID_PARITY = 67108864
ics.ics.SPY_STATUS2_LIN_ERR_RX_BREAK_NOT_0 = 2097152
ics.ics.SPY_STATUS2_LIN_ERR_RX_BREAK_TOO_SHORT = 4194304
ics.ics.SPY_STATUS2_LIN_ERR_RX_DATA_GREATER_8 = 16777216
ics.ics.SPY_STATUS2_LIN_ERR_RX_SYNC_NOT_55 = 8388608
ics.ics.SPY_STATUS2_LIN_ERR_TX_RX_MISMATCH = 33554432
ics.ics.SPY_STATUS2_LIN_ID_FRAME_ERROR = 268435456
ics.ics.SPY_STATUS2_LIN_NO_SLAVE_DATA = -2147483648
ics.ics.SPY_STATUS2_LIN_SLAVE_BYTE_ERROR = 536870912
ics.ics.SPY_STATUS2_LIN_SYNC_FRAME_ERROR = 134217728
ics.ics.SPY_STATUS2_LONG_MESSAGE = 8
ics.ics.SPY_STATUS2_MOST_CHANGED_PAR = -2147483648
ics.ics.SPY_STATUS2_MOST_CONTROL_DATA = 16777216
ics.ics.SPY_STATUS2_MOST_I2S_DUMP = 134217728
ics.ics.SPY_STATUS2_MOST_LOW_LEVEL = 8388608
ics.ics.SPY_STATUS2_MOST_MHP_CONTROL_DATA = 67108864
ics.ics.SPY_STATUS2_MOST_MHP_USER_DATA = 33554432
ics.ics.SPY_STATUS2_MOST_MOST150 = 1073741824
ics.ics.SPY_STATUS2_MOST_MOST50 = 536870912
ics.ics.SPY_STATUS2_MOST_PACKET_DATA = 2097152
ics.ics.SPY_STATUS2_MOST_STATUS = 4194304
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```
ics.ics.SPY_STATUS2_MOST_TOO_SHORT = 268435456
ics.ics.SPY_STATUS2_RX_TIMEOUT_ERROR = 1073741824
ics.ics.SPY_STATUS2_VALUE_IS_BOOLEAN = 2
ics.ics.SPY_STATUS3_CANFD_BRS = 16
ics.ics.SPY_STATUS3_CANFD_ESI = 1
ics.ics.SPY_STATUS3_CANFD_FDF = 8
ics.ics.SPY_STATUS3_CANFD_IDE = 2
ics.ics.SPY_STATUS3_CANFD_RTR = 4
ics.ics.SPY_STATUS3_LIN_JUST_BREAK_SYNC = 1
ics.ics.SPY_STATUS3_LIN_ONLY_UPDATE_SLAVE_TABLE_ONCE = 4
ics.ics.SPY_STATUS3_LIN_SLAVE_DATA_TOO_SHORT = 2
ics.ics.SPY_STATUS_ANALOG_DIGITAL_INPUT = 16777216
ics.ics.SPY_STATUS_AUDIO_COMMENT = 4194304
ics.ics.SPY_STATUS_AVSI_REC_OVERFLOW = 1048576
ics.ics.SPY_STATUS_BAD_MESSAGE_BIT_TIME_ERROR = 16384
ics.ics.SPY_STATUS_BREAK = 524288
ics.ics.SPY_STATUS_BUS_RECOVERED = 1024
ics.ics.SPY_STATUS_BUS_SHORTED_GND = 4096
ics.ics.SPY_STATUS_BUS_SHORTED_PLUS = 2048
ics.ics.SPY_STATUS_CANFD = 536870912
ics.ics.SPY_STATUS_CAN_BUS_OFF = 512
ics.ics.SPY_STATUS_CAN_ERROR_PASSIVE = 32
ics.ics.SPY_STATUS_CHECKSUM_ERROR = 8192
ics.ics.SPY_STATUS_COMM_IN_OVERFLOW = 65536
ics.ics.SPY_STATUS_CRC_ERROR = 16
ics.ics.SPY_STATUS_EXPECTED_LEN_MISMATCH = 131072
ics.ics.SPY_STATUS_EXTENDED = -2147483648
ics.ics.SPY_STATUS_FLEXRAY_PDU = 268435456
ics.ics.SPY_STATUS_FLEXRAY_PDU_NO_UPDATE_BIT = 8
ics.ics.SPY_STATUS_FLEXRAY_PDU_UPDATE_BIT_SET = 1073741824
ics.ics.SPY_STATUS_GLOBAL_ERR = 1
ics.ics.SPY_STATUS_GPS_DATA = 8388608
ics.ics.SPY_STATUS_HEADERCRC_ERROR = 32
ics.ics.SPY_STATUS_HIGH_SPEED = 1073741824
ics.ics.SPY_STATUS_INCOMPLETE_FRAME = 64
ics.ics.SPY_STATUS_INIT_MESSAGE = 536870912
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ics.ics.SPY_STATUS_LIN_MASTER = 536870912
ics.ics.SPY_STATUS_LOST_ARBITRATION = 128
ics.ics.SPY_STATUS_MSG_NO_MATCH = 262144
ics.ics.SPY_STATUS_NETWORK_MESSAGE_TYPE = 67108864
ics.ics.SPY_STATUS_PDU = 268435456
ics.ics.SPY_STATUS_REMOTE_FRAME = 8
ics.ics.SPY_STATUS_TEST_TRIGGER = 2097152
ics.ics.SPY_STATUS_TEXT_COMMENT = 33554432
ics.ics.SPY_STATUS_TX_MSG = 2
ics.ics.SPY_STATUS_TX_NOMATCH = 32768
ics.ics.SPY_STATUS_UNDEFINED_ERROR = 256
ics.ics.SPY_STATUS_VSI_IFR_CRC_BIT = 268435456
ics.ics.SPY_STATUS_VSI_TX_UNDERRUN = 134217728
ics.ics.SPY_STATUS_XTD_FRAME = 4
ics.ics.SWCAN_AUTOSWITCH_DISABLED = 0
ics.ics.SWCAN_AUTOSWITCH_DISABLED_RESISTOR_ENABLED = 3
ics.ics.SWCAN_AUTOSWITCH_NO_RESISTOR = 1
ics.ics.SWCAN_AUTOSWITCH_WITH_RESISTOR = 2
ics.ics.SWCAN_SETTINGS_SIZE = 14
ics.ics.TIMESYNC_ICSHARDWARE_SETTINGS_SIZE = 4
ics.ics.UART_SETTINGS_SIZE = 16
ics.ics.USE_TQ = 1
ics.ics.VNETBITS_FEATURE_ANDROID_MSGS = 1
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