
python_ics Documentation

Release 905.10

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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?

-Updated icsnVC40.h to v905.10 -Fixed a bunch of issues with setting structures. Script was essentially completely re-written with unit tests now.

v903+ Compatibility Changes

2.1 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>
```

2.2 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: svcn3_settings
- vcan4: svcn4_settings
- ecu: secu_settings
- icvb: sievb_settings
- pendant: s_pendant_settings
- radgalaxy: srاد_galaxy_settings
- radstar2: srاد_star2_settings
- neoobd2_sim: sobd2_sim_settings
- cmprobe: s_cm_probe_settings
- obd2pro: sobd2_pro_settings
- vcan412: svcn412_settings
- vcan4_12: svcn412_settings
- neoecu_avb: secu_avb_settings
- radsupermoon: srاد_super_moon_settings
- radmoon2: srاد_moon2_settings
- pluto: srاد_pluto_settings
- plutoswitch: s_pluto_switch_settings_s
- radgigalog: srاد_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: srad_gigastar_settings
- jupiter: srad_jupiter_settings
- fire3: s_fire3_settings
- radmoon_duo: s_rad_moon_duo_settings

2.3 PyInstaller

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

```
# -*- mode: python ; coding: utf-8 -*-

import ics

block_cipher = None

a = Analysis(['test.py'],
             pathex=['.'],
             binaries=[],
             datas=[],
             hiddenimports=ics.hidden_imports,
             hookspath=[],
             runtime_hooks=[],
             excludes=[],
             win_no_prefer_redirects=False,
             win_private_assemblies=False,
             cipher=block_cipher,
             noarchive=False)
pyz = PYZ(a.pure, a.zipped_data,
          cipher=block_cipher)
exe = EXE(pyz,
          a.scripts,
          [],
          exclude_binaries=True,
          name='test',
          debug=False,
          bootloader_ignore_signals=False,
          strip=False,
          upx=True,
          console=True )
coll = COLLECT(exe,
               a.binaries,
               a.zipfiles,
               a.datas,
               strip=False,
               upx=True,
               upx_exclude=[],
               name='test')
```

2.4 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.

Versioning Information

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:

3.1 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

3.2 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

Installation on Windows

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.

4.1 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.

4.2 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.

Installation on Linux

`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")`.

5.1 Fedora Dependencies (FC28)

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

5.2 Debian/Ubuntu Dependencies

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

5.3 Others (Required dependencies)

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

5.4 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).

5.5 Intrepid libicsneoapi.so Library

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

CHAPTER 6

Getting Started

Please see 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

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

7.1 Opening a device

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

7.2 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.

7.3 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()`.

7.4 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.

Module Documentation

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.icsneoGetLastAPIError()`

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_sdcards()` 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()`

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

`ics.ics.icsneoScriptWriteTxMessage()`

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

`ics.ics.icsneoSetActiveVNETChannel()`

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

`ics.ics.icsneoSetBackupPowerEnabled()`

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

`ics.ics.icsneoSetBitRate()`

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

`ics.ics.icsneoSetBitRateEx()`

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

`ics.ics.icsneoSetContext()`

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

`ics.ics.icsneoSetDeviceSettings()`

Note:	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 9

Module Functions

ics.ISO15765_DisableNetworks
ics.ISO15765_EnableNetworks
ics.ISO15765_ReceiveMessage
ics.ISO15765_TransmitMessage
ics.close_device
ics.coremini_clear
ics.coremini_get_fblock_status
ics.coremini_get_status
ics.coremini_load
ics.coremini_read_app_signal
ics.coremini_read_rx_message
ics.coremini_read_tx_message
ics.coremini_start
ics.coremini_start_fblock
ics.coremini_stop
ics.coremini_stop_fblock
ics.coremini_write_app_signal
ics.coremini_write_rx_message
ics.coremini_write_tx_message
ics.create_neovi_radio_message
ics.disk_format
ics.disk_format_cancel
ics.enable_bus_voltage_monitor
ics.enable_network_com
ics.find_devices
ics.firmware_update_required
ics.force_firmware_update
ics.get_active_vnet_channel
ics.get_backup_power_enabled

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<code>ics.get_backup_power_ready</code>
<code>ics.get_bus_voltage</code>
<code>ics.get_device_settings</code>
<code>ics.get_device_status</code>
<code>ics.get_disk_details</code>
<code>ics.get_disk_format_progress</code>
<code>ics.get_dll_firmware_info</code>
<code>ics.get_dll_version</code>
<code>ics.get_error_messages</code>
<code>ics.get_hw_firmware_info</code>
<code>ics.get_last_api_error</code>
<code>ics.get_library_path</code>
<code>ics.get_messages</code>
<code>ics.get_performance_parameters</code>
<code>ics.get_rtc</code>
<code>ics.get_script_status</code>
<code>ics.get_serial_number</code>
<code>ics.get_timestamp_for_msg</code>
<code>ics.isol5765_disable_networks</code>
<code>ics.isol5765_enable_networks</code>
<code>ics.isol5765_receive_message</code>
<code>ics.isol5765_transmit_message</code>
<code>ics.load_default_settings</code>
<code>ics.open_device</code>
<code>ics.override_library_name</code>
<code>ics.read_jupiter_firmware</code>
<code>ics.read_sdcard</code>
<code>ics.request_enter_sleep_mode</code>
<code>ics.set_active_vnet_channel</code>
<code>ics.set_backup_power_enabled</code>
<code>ics.set_bit_rate</code>
<code>ics.set_bit_rate_ex</code>
<code>ics.set_context</code>
<code>ics.set_device_settings</code>
<code>ics.set_fd_bit_rate</code>
<code>ics.set_reflash_callback</code>
<code>ics.set_rtc</code>
<code>ics.transmit_messages</code>
<code>ics.validate_hobject</code>
<code>ics.write_jupiter_firmware</code>
<code>ics.write_sdcard</code>
<code>ics.ClosePort</code>
<code>ics.EnableBusVoltageMonitor</code>
<code>ics.EnableNetworkCom</code>
<code>ics.FindNeoDevices</code>
<code>ics.FirmwareUpdateRequired</code>
<code>ics.ForceFirmwareUpdate</code>
<code>ics.GetActiveVNETChannel</code>
<code>ics.GetBackupPowerEnabled</code>
<code>ics.GetBackupPowerReady</code>

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<code>ics.GetBusVoltage</code>
<code>ics.GetDLLFirmwareInfo</code>
<code>ics.GetDLLVersion</code>
<code>ics.GetDeviceSettings</code>
<code>ics.GetDeviceStatus</code>
<code>ics.GetErrorMessages</code>
<code>ics.GetHWFirmwareInfo</code>
<code>ics.GetLastAPIError</code>
<code>ics.GetMessages</code>
<code>ics.GetPerformanceParameters</code>
<code>ics.GetRTC</code>
<code>ics.GetSerialNumber</code>
<code>ics.GetTimeStampForMsg</code>
<code>ics.LoadDefaultSettings</code>
<code>ics.OpenNeoDevice</code>
<code>ics.ReadJupiterFirmware</code>
<code>ics.ReadSDCard</code>
<code>ics.RequestDiskDetails</code>
<code>ics.RequestDiskFormat</code>
<code>ics.RequestDiskFormatCancel</code>
<code>ics.RequestDiskFormatProgress</code>
<code>ics.RequestEnterSleepMode</code>
<code>ics.ScriptClear</code>
<code>ics.ScriptGetFBlockStatus</code>
<code>ics.ScriptGetScriptStatus</code>
<code>ics.ScriptGetScriptStatusEx</code>
<code>ics.ScriptLoad</code>
<code>ics.ScriptReadAppSignal</code>
<code>ics.ScriptReadRxMessage</code>
<code>ics.ScriptReadTxMessage</code>
<code>ics.ScriptStart</code>
<code>ics.ScriptStartFBlock</code>
<code>ics.ScriptStop</code>
<code>ics.ScriptStopFBlock</code>
<code>ics.ScriptWriteAppSignal</code>
<code>ics.ScriptWriteRxMessage</code>
<code>ics.ScriptWriteTxMessage</code>
<code>ics.SetActiveVNETChannel</code>
<code>ics.SetBackupPowerEnabled</code>
<code>ics.SetBitRate</code>
<code>ics.SetBitRateEx</code>
<code>ics.SetContext</code>
<code>ics.SetDeviceSettings</code>
<code>ics.SetFDBitRate</code>
<code>ics.SetRTC</code>
<code>ics.SetReflashDisplayCallback</code>
<code>ics.TxMessages</code>
<code>ics.ValidateHObject</code>
<code>ics.WriteJupiterFirmware</code>
<code>ics.WriteSDCard</code>

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ics.icsneoEnableBusVoltageMonitor
ics.icsneoEnableNetworkCom
ics.icsneoFindNeoDevices
ics.icsneoFirmwareUpdateRequired
ics.icsneoForceFirmwareUpdate
ics.icsneoGetActiveVNETChannel
ics.icsneoGetBackupPowerEnabled
ics.icsneoGetBackupPowerReady
ics.icsneoGetBusVoltage
ics.icsneoGetDLLFirmwareInfo
ics.icsneoGetDLLVersion
ics.icsneoGetDeviceSettings
ics.icsneoGetDeviceStatus
ics.icsneoGetErrorMessages
ics.icsneoGetHWFirmwareInfo
ics.icsneoGetLastAPIError
ics.icsneoGetMessages
ics.icsneoGetPerformanceParameters
ics.icsneoGetRTC
ics.icsneoGetSerialNumber
ics.icsneoGetTimeStampForMsg
ics.icsneoISO15765_DisableNetworks
ics.icsneoISO15765_EnableNetworks
ics.icsneoISO15765_ReceiveMessage
ics.icsneoISO15765_TransmitMessage
ics.icsneoLoadDefaultSettings
ics.icsneoOpenNeoDevice
ics.icsneoReadJupiterFirmware
ics.icsneoReadSDCard
ics.icsneoRequestDiskDetails
ics.icsneoRequestDiskFormat
ics.icsneoRequestDiskFormatCancel
ics.icsneoRequestDiskFormatProgress
ics.icsneoRequestEnterSleepMode
ics.icsneoScriptClear
ics.icsneoScriptGetFBlockStatus
ics.icsneoScriptGetScriptStatus
ics.icsneoScriptGetScriptStatusEx
ics.icsneoScriptLoad
ics.icsneoScriptReadAppSignal
ics.icsneoScriptReadRxMessage
ics.icsneoScriptReadTxMessage
ics.icsneoScriptStart
ics.icsneoScriptStartFBlock
ics.icsneoScriptStop
ics.icsneoScriptStopFBlock
ics.icsneoScriptWriteAppSignal
ics.icsneoScriptWriteRxMessage

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<code>ics.icsneoScriptWriteTxMessage</code>
<code>ics.icsneoSetActiveVNETChannel</code>
<code>ics.icsneoSetBackupPowerEnabled</code>
<code>ics.icsneoSetBitRate</code>
<code>ics.icsneoSetBitRateEx</code>
<code>ics.icsneoSetContext</code>
<code>ics.icsneoSetDeviceSettings</code>
<code>ics.icsneoSetFDBitRate</code>
<code>ics.icsneoSetRTC</code>
<code>ics.icsneoSetReflashDisplayCallbacks</code>
<code>ics.icsneoTxMessages</code>
<code>ics.icsneoValidateHObject</code>
<code>ics.icsneoWriteJupiterFirmware</code>
<code>ics.icsneoWriteSDCard</code>

CHAPTER 10

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 = 20

DeviceCMPProbeSettingsType = 23

DeviceECU_AVBSettingsType = 10

DeviceEEVBSetsType = 16

```
DeviceEtherBadgeSettingsType = 31
DeviceFire2SettingsType = 3
DeviceFire3SettingsType = 29
DeviceFireSettingsType = 1
DeviceFireVnetSettingsType = 2
DeviceFlexVnetzSettingsType = 19
DeviceIEVBSSettingsType = 21
DeviceNeoECU12SettingsType = 18
DeviceOBD2ProSettingsType = 24
DeviceOBD2SimSettingsType = 22
DeviceRADA2BSettingsType = 32
DeviceRADGalaxySettingsType = 5
DeviceRADGigalogSettingsType = 14
DeviceRADGigastarSettingsType = 27
DeviceRADJupiterSettingsType = 28
DeviceRADMoon2SettingsType = 12
DeviceRADPlutoSettingsType = 13
DeviceRADPlutoSwitchSettingsType = 26
DeviceRADStar2SettingsType = 6
DeviceRADSuperMoonSettingsType = 11
DeviceRadMoonDuoSettingsType = 30
DeviceRedSettingsType = 25
DeviceSettingsNone = 4294967295
DeviceSettingsTypeMax = 33
DeviceVCAN3SettingsType = 4
DeviceVCAN412SettingsType = 8
DeviceVCAN4IndSettingsType = 17
DeviceVCAN4SettingsType = 7
DeviceVCANRFSettingsType = 15
DeviceVividCANSSettingsType = 9

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 = 2
    PlasmaIonVnetChannelB = 3
    PlasmaIonVnetChannelMain = 1
    eFpgaStatusResp = 5
    eSoftCore = 4

    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 = 5
    flexVnetModeDisabled = 1
    flexVnetModeOneDual = 3
    flexVnetModeOneSingle = 2
    flexVnetModeTwoSingle = 4

    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

etherBadge
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

nameless46123
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

rad_a2b
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

nameless24745
Structure/Union member

nameless29452
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

nameless39162
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

nameless34109

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_status

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

nameless30901
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

nameless42639
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

    nameless45525
        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
```

linkModel

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

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

disk
Structure/Union member

ethernet
Structure/Union member

ethernet2
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

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

```
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
```

```
    extension  
        Structure/Union member
```

```
    header  
        Structure/Union member
```

```
class ics.structures.s_ext_sub_cmd_hdr.s_ext_sub_cmd_hdr
```

```
    command  
        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

    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

disk

Structure/Union member

ethernet

Structure/Union member

ethernet2

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

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

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

termination_enables
Structure/Union member

text_api
Structure/Union member

timeSync
Structure/Union member

class ics.structures.s_fire_settings.**s_fire_settings**

ain_sample_period
Structure/Union member

ain_threshold
Structure/Union member

can1
Structure/Union member

can2
Structure/Union member

can3
Structure/Union member

can4
Structure/Union member

cgi_baud
Structure/Union member

cgi_chksum_enable
Structure/Union member

cgi_enable_reserved
Structure/Union member

cgi_rx_ifs_bit_times
Structure/Union member

cgi_tx_ifs_bit_times
Structure/Union member

fast_init_network_enables_1
Structure/Union member

fast_init_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

iso9141_kwp_settings_3
Structure/Union member

iso9141_kwp_settings_4
Structure/Union member

iso_msg_termination
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
Structure/Union member

iso_parity_2
Structure/Union member

iso_parity_3
Structure/Union member

iso_parity_4
Structure/Union member

iso_tester_pullup_enable
Structure/Union member

lin1
Structure/Union member

lin2
Structure/Union member

lin3
Structure/Union member

lin4
Structure/Union member

lsftcan
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

neoMostGateway

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

pwm_man_timeout

Structure/Union member

pwr_man_enable

Structure/Union member

swcan

Structure/Union member

text_api

Structure/Union member

uart

Structure/Union member

uart2

Structure/Union member

vnetBits

Structure/Union member

class ics.structures.s_fire_vnet_settings.s_fire_vnet_settings

ain_sample_period

Structure/Union member

ain_threshold

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

cgi_baud
Structure/Union member

cgi_chksum_enable
Structure/Union member

cgi_enable_reserved
Structure/Union member

cgi_rx_ifs_bit_times
Structure/Union member

cgi_tx_ifs_bit_times
Structure/Union member

fast_init_network_enables_1
Structure/Union member

fast_init_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

iso9141_kwp_settings_3
Structure/Union member

iso9141_kwp_settings_4
Structure/Union member

iso_msg_termination
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
Structure/Union member

iso_parity_2
Structure/Union member

iso_parity_3
Structure/Union member

iso_parity_4
Structure/Union member

iso_tester_pullup_enable
Structure/Union member

lin1
Structure/Union member

lin2
Structure/Union member

lin3
Structure/Union member

lin4
Structure/Union member

lin5
Structure/Union member

lsftcan
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

neoMostGateway
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

pwm_man_timeout
Structure/Union member

pwr_man_enable
Structure/Union member

swcan
Structure/Union member

swcan2
Structure/Union member

text_api
Structure/Union member

uart
Structure/Union member

uart2
Structure/Union member

vnetBits
Structure/Union member

class ics.structures.s_flex_vnetz_settings.**s_flex_vnetz_settings**

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

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

disk
Structure/Union member

ethernet
Structure/Union member

ethernet2
Structure/Union member

flags
Structure/Union member

flex_mode
Structure/Union member

flex_termination
Structure/Union member

iso15765_separation_time_offset
Structure/Union member

misc_io_on_report_events
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

slaveVnetA
Structure/Union member

slaveVnetB
Structure/Union member

termination_enables
Structure/Union member

text_api
Structure/Union member

timeSync
Structure/Union member


```
class ics.structures.s_neo_ecul2_settings.s_neo_ecul2_settings
```

```
    ain_sample_period
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    ain_threshold
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        Structure/Union member
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    can2
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        Structure/Union member
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    can_switch_mode
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    canfd2
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    ecu_id
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    iso9141_kwp_settings
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    iso_msg_termination
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    iso_parity
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        Structure/Union member
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    lsftcan1
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    misc_io_initial_ddr
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    canfd7
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    canfd8
        Structure/Union member

    disk
        Structure/Union member

    ecu_id
        Structure/Union member
```

ethernet

Structure/Union member

ethernet10g

Structure/Union member

ethernet2

Structure/Union member

flags

Structure/Union member

idle_wakeup_network_enables_1

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idle_wakeup_network_enables_2

Structure/Union member

idle_wakeup_network_enables_3

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

logger

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

network_enables_4

Structure/Union member

perf_en

Structure/Union member

pwr_man_enable

Structure/Union member

pwr_man_timeout
Structure/Union member

reporting
Structure/Union member

rsvd1
Structure/Union member

rsvd2
Structure/Union member

serdescam1
Structure/Union member

serdescam2
Structure/Union member

serdescam3
Structure/Union member

serdescam4
Structure/Union member

serdesgen
Structure/Union member

serdespoc
Structure/Union member

termination_enables
Structure/Union member

text_api
Structure/Union member

timeSyncSettings
Structure/Union member

class ics.structures.srad_gigastar_settings.**srad_gigastar_settings**

can1
Structure/Union member

can2
Structure/Union member

can3
Structure/Union member

can4
Structure/Union member

can5
Structure/Union member

can6
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

disk
Structure/Union member

ecu_id
Structure/Union member

ethernet1
Structure/Union member

ethernet2
Structure/Union member

flags
Structure/Union member

idle_wakeup_network_enables_1
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idle_wakeup_network_enables_2
Structure/Union member

idle_wakeup_network_enables_3
Structure/Union member

iso15765_separation_time_offset
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iso9141_kwp_settings_1
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iso_9141_kwp_enable_reserved
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iso_msg_termination_1
Structure/Union member

iso_parity_1
Structure/Union member

lin1
Structure/Union member

logger
Structure/Union member

network_enabled_on_boot
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network_enables
Structure/Union member

network_enables_2
Structure/Union member

network_enables_3
Structure/Union member

network_enables_4
Structure/Union member

opEth1
Structure/Union member

opEth2
Structure/Union member

opEthGen
Structure/Union member

perf_en
Structure/Union member

pwr_man_enable
Structure/Union member

pwr_man_timeout
Structure/Union member

reporting
Structure/Union member

serdescam1
Structure/Union member

serdescam2
Structure/Union member

serdescam3
Structure/Union member

serdescam4
Structure/Union member

serdesgen
Structure/Union member

serdespoc
Structure/Union member

termination_enables
Structure/Union member

text_api
Structure/Union member

timeSyncSettings
Structure/Union member

class ics.structures.srad_jupiter_settings.srad_jupiter_settings

can1
Structure/Union member

can2
Structure/Union member

canfd1
Structure/Union member

canfd2
Structure/Union member

ethernet
Structure/Union member

ethernet2
Structure/Union member

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iso9141_kwp_enable_reserved
Structure/Union member

iso9141_kwp_settings
Structure/Union member

iso_msg_termination
Structure/Union member

iso_parity
Structure/Union member

iso_tester_pullup_enable
Structure/Union member

lin1
Structure/Union member

misc_io_analog_enable
Structure/Union member

network_enabled_on_boot
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network_enables
Structure/Union member

network_enables_2
Structure/Union member

network_enables_3
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perf_en
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pwr_man_enable
Structure/Union member

pwr_man_timeout
Structure/Union member

switchSettings
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termination_enables
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text_api
Structure/Union member

class ics.structures.srad_jupiter_switch_settings.**srad_jupiter_switch_settings**

enablePhy
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pad
Structure/Union member

phyMode
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port7Select
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port8Legacy
Structure/Union member

port8Select
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port8Speed
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spoofMacFlag
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spoofedMac
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pc_com_mode
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perf_en
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text_api
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iso9141_kwp_settings
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misc_io_analog_enable

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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

termination_enables

Structure/Union member

text_api

Structure/Union member

class ics.structures.srad_star2_settings.srad_star2_settings

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ain_threshold

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can1

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can2

Structure/Union member

can_switch_mode

Structure/Union member

canfd1

Structure/Union member

canfd2

Structure/Union member

ethernet

Structure/Union member

hwComLatencyTestEn

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idle_wakeup_network_enables_1

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idle_wakeup_network_enables_2
Structure/Union member

idle_wakeup_network_enables_3
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iso15765_separation_time_offset
Structure/Union member

iso9141_kwp_settings_1
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iso_9141_kwp_enable_reserved
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iso_msg_termination_1
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iso_parity_1
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misc_io_analog_enable
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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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network_enables_3
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pc_com_mode
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perf_en
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pwr_man_enable
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pwr_man_timeout
Structure/Union member

reporting
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text_api
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timeSyncSettings
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network_enables_3
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opEthGen
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perf_en
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text_api
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timeSyncSettings
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class ics.structures.st_api_firmware_info.**st_api_firmware_info**

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vcanrf_versions
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vividcan_versions
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fc_ext_address_enable
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fc_id_29_bit_enable
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flowControlExtendedAddress
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stMin
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vs_netid
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blockSize
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extendedAddress
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fc_id
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fc_id_29_bit_enable
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fc_id_mask
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flags
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fs_wait
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overrideSTmin

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stMin

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tx_index

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class ics.structures.svcan3_settings.svcan3_settings

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can2

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iso15765_separation_time_offset

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misc_io_initial_ddr

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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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network_enabled_on_boot

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network_enables

Structure/Union member

perf_en

Structure/Union member

```
class ics.structures.svcan412_settings.svcan412_settings
```

```
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    can2  
        Structure/Union member  
  
    canfd1  
        Structure/Union member  
  
    canfd2  
        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  
  
    termination_enables  
        Structure/Union member  
  
    text_api  
        Structure/Union member
```

```
class ics.structures.svcan4_ind_settings.svcan4_ind_settings
```

```
    can1  
        Structure/Union member  
  
    can2  
        Structure/Union member  
  
    canfd1  
        Structure/Union member  
  
    canfd2  
        Structure/Union member  
  
    ethernet  
        Structure/Union member  
  
    ethernet2  
        Structure/Union member
```

flags

Structure/Union member

iso15765_separation_time_offset

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iso9141_kwp_settings

Structure/Union member

iso_msg_termination

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iso_parity

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lin1

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network_enabled_on_boot

Structure/Union member

network_enables

Structure/Union member

perf_en

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pwr_man_enable

Structure/Union member

pwr_man_timeout

Structure/Union member

termination_enables

Structure/Union member

class ics.structures.svcan4_settings.svcan4_settings

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can2

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can3

Structure/Union member

can4

Structure/Union member

canfd1

Structure/Union member

canfd2

Structure/Union member

canfd3

Structure/Union member

canfd4

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ethernet
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ethernet2
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flags
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iso15765_separation_time_offset
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iso9141_kwp_settings_1
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iso_9141_kwp_enable_reserved
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iso_msg_termination_1
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iso_parity_1
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lin1
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network_enabled_on_boot
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network_enables
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network_enables_2
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network_enables_3
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pwr_man_enable
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pwr_man_timeout
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termination_enables
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text_api
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class ics.structures.svcanrf_settings.**svcanrf_settings**

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can2
Structure/Union member

can3
Structure/Union member

can4
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disableFwLEDs
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idle_wakeup_network_enables_1
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idle_wakeup_network_enables_2
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iso9141_kwp_settings
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iso9141_kwp_settings_2
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iso_msg_termination
Structure/Union member

iso_msg_termination_2
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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

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pwr_man_enable

Structure/Union member

pwr_man_timeout

Structure/Union member

reservedZero

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class ics.structures.swcan_settings.swcan_settings

BRP

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Baudrate

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Mode

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RESERVED

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SetBaudrate

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TqProp

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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

Reserved
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can_options
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class ics.structures.tag_options_open_neo_ex.tag_options_open_neo_ex

Reserved
Structure/Union member

can_options
Structure/Union member

class ics.structures.tagicsneo_vi_command.tagicsneo_vi_command

CommandByteLength
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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
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bOptions
Structure/Union member

brgh
Structure/Union member

flow_control
Structure/Union member

half_duplex
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invert_rx
Structure/Union member

invert_tx
Structure/Union member

nameless35363
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parity
Structure/Union member

reserved_1
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reserved_bits
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reserved_bits2
Structure/Union member

spbrg
Structure/Union member

stop_bits
Structure/Union member

CHAPTER 11

Module Variables

```
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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
```

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ics.ics.FAST_MODE = 3
ics.ics.GLOBAL_SETTINGS_SIZE = 926
ics.ics.GS_VERSION = 5
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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
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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
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ics.ics.ISO15765_2_NETWORK_HSCAN7 = 32
ics.ics.ISO15765_2_NETWORK_MSCAN = 2
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ics.ics.ISO15765_2_NETWORK_SWCAN2 = 36
ics.ics.ISO9141_KEYWORD2000_SETTINGS_SIZE = 114
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ics.ics.J1708_SETTINGS_SIZE = 2
ics.ics.LIN_SETTINGS_SIZE = 10
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ics.ics.LISTEN_ONLY = 3
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ics.ics.MAX_PHY_SETTINGS_STRUCT = 128
ics.ics.MAX_VL_FORWARDING_ENTRIES = 1024
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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
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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
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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
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_10 = 54
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_12 = 56
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_14 = 58
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_16 = 59
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_20 = 60
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_24 = 61
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_30 = 62
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_32 = 63
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_36 = 64
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RAW_8 = 53
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RGB565 = 47
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RGB666 = 48
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_RGB888 = 49
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_UYVY_422_10LE_PACKED = 39
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_UYVY_422_12LE_PACKED = 43
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_UYVY_422_8 = 35
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_VYUY_422_10LE_PACKED = 42
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_VYUY_422_12LE_PACKED = 46
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_VYUY_422_8 = 38
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_YUYV_422_10LE_PACKED = 40
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_YUYV_422_12LE_PACKED = 44
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_YUYV_422_8 = 36
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_YVYU_422_10LE_PACKED = 41
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_YVYU_422_12LE_PACKED = 45
ics.ics.SERDESCAM_VIDEO_FORMAT_CSI2_YVYU_422_8 = 37
ics.ics.SERDESCAM_VIDEO_FORMAT_JPEG = 23
ics.ics.SERDESCAM_VIDEO_FORMAT_NONE = -1
ics.ics.SERDESCAM_VIDEO_FORMAT_RAW_10 = 6
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_MANCHSESTER = 26
ics.ics.SPY_PROTOCOL_GENERIC_UART = 22
ics.ics.SPY_PROTOCOL_GME_CIM_SCL_KLINE = 19
ics.ics.SPY_PROTOCOL_GMFSA = 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
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ics.ics.SPY_STATUS_GPS_DATA = 8388608
ics.ics.SPY_STATUS_HEADERCRC_ERROR = 32
ics.ics.SPY_STATUS_HIGH_SPEED = 1073741824
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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
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