
qblox*instruments*

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CHAPTER 1

Readme

This repository contains Qblox instrument drivers, tutorials and documentation.

Documentation: <https://qblox-qblox-instruments.readthedocs-hosted.com/en/master/>

CHAPTER 2

API Reference

Contents:

2.1 ieee488_2

```
class ieee488_2.transport.file_transport(out_file_name: str, in_file_name: str = "")  
    Input/output from/to file to support driver testing  
  
class ieee488_2.transport.ip_transport(host: str, port: int = 5025, timeout=10.0,  
                                         snd_buf_size: int = 524288)  
    IP socket transport  
  
class ieee488_2.transport.pulsar_dummy_transport(cfg_format)  
    Dummy transport  
  
class ieee488_2.transport.transport  
    Abstract base class for data transport to instruments
```

2.2 pulsar_qcm

2.2.1 QCoDeS driver

```
class pulsar_qcm.pulsar_qcm.pulsar_qcm(name, host, port=5025, debug=0)  
  
    _abc_impl = <_abc_data object>  
  
class pulsar_qcm.pulsar_qcm.pulsar_qcm_dummy(name, debug=1)  
  
    _abc_impl = <_abc_data object>
```

```
class pulsar_qcm.pulsar_qcm.pulsar_qcm_qcodes(name, transport_inst, debug=0)
    The Pulsar QCM QCoDeS interface.

    _abc_impl = <_abc_data object>

    static _gen_get_func_par(func, *args)
        Generate get function with fixed parameters

    static _gen_set_func_par(func, *args)
        Generate set function with fixed parameters

    _get_sequencer_config_val(sequencer, param)
        Get sequencer configuration helper

    _set_sequencer_config_val(sequencer, param, val)
        Set sequencer configuration helper

    _set_sequencer_waveforms_and_program(sequencer, file_name)
        Set sequencer waveforms and program
```

2.2.2 Native interface

```
class pulsar_qcm.pulsar_qcm_ifc.pulsar_qcm_ifc(transport_inst, debug=0)

    _add_awg_waveform(sequencer, name, waveform, index=None)
        Add AWG waveform to sequencer.

    _add_waveforms(sequencer, waveform_dict)
        Add all waveforms in dictionary to sequencer.

    _delete_awg_waveform(sequencer, name)
        Delete AWG waveform from sequencer.

    _delete_waveforms(sequencer)
        Delete all waveforms from sequencer.

    _get_awg_waveform_data(sequencer, name, start=0, size=2147483648)
        Get AWG waveform data from sequencer.

    _get_awg_waveform_index(sequencer, name)
        Get AWG waveform index from sequencer.

    _get_awg_waveform_length(sequencer, name)
        Get AWG waveform length from sequencer.

    _get_awg_waveform_name(sequencer, index)
        Get AWG waveform name from sequencer.

    _get_awg_waveform_names(sequencer)
        Return all AWG waveforms names

    _get_num_awg_waveforms(sequencer)
        Get number of AWG waveforms in sequencer.

    _get_scpi_commands()
        Get SCPI commands.

    static _get_sequencer_cfg_format()
        Get sequencer configuration format

    _get_sequencer_config(sequencer)
        Get sequencer configuration.
```

```
_set_awg_waveform_data(sequencer, name, waveform)
    Set AWG waveform data in sequencer

_set_awg_waveform_index(sequencer, name, index)
    Set AWG waveform index in sequencer.

_set_sequencer_config(sequencer, cfg_dict)
    Set sequencer configuration.

_set_sequencer_program(sequencer, program)
    Program sequencer.

arm_sequencer(sequencer=None)
    Arm sequencer.

get_idn()
    Get device identity and build information.

get_sequencer_state(sequencer)
    Get sequencer state.

get_system_status()
    Get general system status.

get_waveforms(sequencer)
    Return all waveforms in a dictionary

start_sequencer(sequencer=None)
    Start sequencer.

stop_sequencer(sequencer=None)
    Stop sequencer.
```

2.2.3 SCPI interface

```
class pulsar_qcm.pulsar_qcm_scpi_ifc.pulsar_qcm_scpi_ifc(transport_inst,      de-
                                                               bug=0)

_add_awg_waveform(sequencer, awg, name, size, is_integer)
    Add waveform to sequencer AWG path.

_arm_sequencer(sequencer)
    Arm sequencer.

_check_error_queue(err=None)
    Check SCPI error queue

_check_in_type(in_arg_dict, in_type_list)
    Check input types

_delete_awg_waveform(sequencer, awg, name)
    Delete waveform from sequencer AWG path.

_get_awg_num_waveforms(sequencer, awg)
    Get number of waveforms in sequencer AWG path.

_get_awg_waveform_data(sequencer, awg, name, start, size)
    Get waveform data from sequencer AWG path.

_get_awg_waveform_index(sequencer, awg, name)
    Get waveform index from sequencer AWG path.
```

```
_get_awg_waveform_length (sequencer, awg, name)
    Get waveform length from sequencer AWG path.

_get_awg_waveform_name (sequencer, awg, index)
    Get waveform name from sequencer AWG path based on index.

_get_awg_waveforms (sequencer, awg)
    Get all waveform names from sequencer AWG path.

_get_idn()
    Get device identity and build information.

_get_reference_source()
    Get reference source.

_get_scpi_commands()
    Get SCPI commands.

_get_sequencer_config(sequencer)
    Get sequencer configuration.

_get_sequencer_state(sequencer)
    Get sequencer state.

_get_system_status()
    Get general system status.

_set_awg_waveform_data(sequencer, awg, name, waveform)
    Set waveform data in sequencer AWG path.

_set_awg_waveform_index(sequencer, awg, name, index)
    Set waveform index in sequencer AWG path.

_set_reference_source(internal)
    Set reference source.

_set_sequencer_config(sequencer, config)
    Set sequencer configuration.

_set_sequencer_program(sequencer, program)
    Program sequencer.

_start_sequencer(sequencer)
    Start sequencer.

_stop_sequencer(sequencer)
    Stop sequencer.

clear()
    Clear all status registers.

get_assembler_log()
    Get assembler log.

get_assembler_status()
    Get assembler status.

get_current_afe_temperature()
    Get analog frontend temperature.

get_current_carrier_temperature()
    Get current carrier temperature.
```

```
get_current_fpga_temperature()
    Get current FPGA temperature.

get_maximum_afe_temperature()
    Get analog frontend temperature.

get_maximum_carrier_temperature()
    Get maximum carrier temperature.

get_maximum_fpga_temperature()
    Get maximum FPGA temperature.

get_num_system_error()
    Get number of system errors.

get_operation_complete()
    Get operation complete status.

get_operation_condition()
    Get operation condition.

get_operation_enable()
    Get operation enable.

get_operation_events()
    Get operation events.

get_questionable_condition()
    Get questionable condition.

get_questionable_enable()
    Get questionable enable.

get_questionable_event()
    Get questionable events.

get_service_request_enable()
    Get service request enable.

get_standard_event_status()
    Get standard event status.

get_standard_event_status_enable()
    Get standard event status enable.

get_status_byte()
    Get status byte.

get_system_error()
    Get system error from queue.

get_system_version()
    Get system version.

preset_system_status()
    Preset system status registers.

reset()
    Reset device.

set_operation_complete()
    Set operation complete command.
```

```
set_operation_enable (reg)
    Get operation enable.

set_questionable_enable (reg)
    Set questionable enable.

set_service_request_enable (reg)
    Set service request enable.

set_standard_event_status_enable (reg)
    Set standard event status enable.

test ()
    Run self-test.

wait ()
    Wait-to-continue.
```

2.3 pulsar_qrm

2.3.1 QCoDeS driver

```
class pulsar_qrm.pulsar_qrm.pulsar_qrm(name, host, port=5025, debug=0)

    _abc_impl = <_abc_data object>

class pulsar_qrm.pulsar_qrm.pulsar_qrm_dummy(name, debug=1)

    _abc_impl = <_abc_data object>

class pulsar_qrm.pulsar_qrm.pulsar_qrm_qcodes(name, transport_inst, debug=0)
    The Pulsar QRM QCoDeS interface.

    _abc_impl = <_abc_data object>

    static _gen_get_func_par(func, *args)
        Generate get function with fixed parameters

    static _gen_set_func_par(func, *args)
        Generate set function with fixed parameters

    _get_sequencer_config_val(sequencer, param)
        Get sequencer configuration helper

    _set_sequencer_config_val(sequencer, param, val)
        Set sequencer configuration helper

    _set_sequencer_waveforms_and_program(sequencer, file_name)
        Set sequencer waveforms and program
```

2.3.2 Native interface

```
class pulsar_qrm.pulsar_qrm_ifc.pulsar_qrm_ifc(transport_inst, debug=0)

    _add_acq_acquisition(sequencer, path, name, size)
        Add acquisition to sequencer acquisition list.
```

```
_add_acq_waveform(sequencer, name, waveform, index=None)
    Add acquisition waveform to sequencer.

_add_awg_waveform(sequencer, name, waveform, index=None)
    Add AWG waveform to sequencer.

_add_waveforms(sequencer, waveform_dict)
    Add all waveforms in dictionary to sequencer.

_delete_acq_acquisition(sequencer, path, name)
    Delete acquisition from sequencer acquisition list.

_delete_acq_waveform(sequencer, name)
    Delete acquisition waveform from sequencer.

_delete_awg_waveform(sequencer, name)
    Delete AWG waveform from sequencer.

_delete_waveforms(sequencer)
    Delete all waveforms from sequencer.

_get_acq_acquisition_data(sequencer, path, name, start=0, size=2147483648)
    Get acquisition data from sequencer acquisition list (Values and out-of-range indication).

_get_acq_acquisition_length(sequencer, path, name)
    Get acquisition length from sequencer acquisition list.

_get_acq_acquisitions(sequencer, path)
    Get all acquisition names from sequencer acquisition list.

_get_acq_num_acquisitions(sequencer, path)
    Get number of acquisition in sequencer acquisition list.

_get_acq_waveform_data(sequencer, name, start=0, size=2147483648)
    Get acquisition waveform data from sequencer.

_get_acq_waveform_index(sequencer, name)
    Get acquisition waveform index from sequencer.

_get_acq_waveform_length(sequencer, name)
    Get acquisition waveform length from sequencer.

_get_acq_waveform_name(sequencer, index)
    Get acquisition waveform name form sequencer.

_get_acq_waveform_names(sequencer)
    Return all acquisition waveforms names

_get_awg_waveform_data(sequencer, name, start=0, size=2147483648)
    Get AWG waveform data from sequencer.

_get_awg_waveform_index(sequencer, name)
    Get AWG waveform index from sequencer.

_get_awg_waveform_length(sequencer, name)
    Get AWG waveform length from sequencer.

_get_awg_waveform_name(sequencer, index)
    Get AWG waveform name form sequencer.

_get_awg_waveform_names(sequencer)
    Return all AWG waveforms names
```

```
_get_num_acq_waveforms (sequencer)
    Get number of acquisition waveforms in sequencer.

_get_num_awg_waveforms (sequencer)
    Get number of AWG waveforms in sequencer.

_get_scpi_commands ()
    Get SCPI commands.

static _get_sequencer_cfg_format ()
    Get sequencer configuration format

_get_sequencer_config (sequencer)
    Get sequencer configuration.

_set_acq_acquisition_data (sequencer, path, name)
    Set acquisition data in sequencer acquisition list from acquisition path.

_set_acq_waveform_data (sequencer, name, waveform)
    Set acquisition waveform data in sequencer

_set_acq_waveform_index (sequencer, name, index)
    Set acquisition waveform index in sequencer.

_set_awg_waveform_data (sequencer, name, waveform)
    Set AWG waveform data in sequencer

_set_awg_waveform_index (sequencer, name, index)
    Set AWG waveform index in sequencer.

_set_sequencer_config (sequencer, cfg_dict)
    Set sequencer configuration.

_set_sequencer_program (sequencer, program)
    Program sequencer.

arm_sequencer (sequencer=None)
    Arm sequencer.

delete_acquisitions (sequencer)
    Delete all acquisitions from sequencer acquisition list.

get_acquisitions (sequencer)
    Return all acquisitions in a dictionary

get_idn ()
    Get device identity and build information.

get_sequencer_state (sequencer)
    Get sequencer state.

get_system_status ()
    Get general system status.

get_waveforms (sequencer)
    Return all waveforms in a dictionary

start_sequencer (sequencer=None)
    Start sequencer.

stop_sequencer (sequencer=None)
    Stop sequencer.
```

store_acquisition(sequencer, name, size=2147483648)
Add acquisition to sequencer acquisition list.

2.3.3 SCPI interface

```
class pulsar_qrm.pulsar_qrm_scpi_ifc.pulsar_qrm_scpi_ifc(transport_inst,      de-
                                                               bug=0)

    _add_acq_acquisition(sequencer, acq, path, name, size)
        Add acquisition to sequencer acquisition list.

    _add_acq_waveform(sequencer, acq, name, size, is_integer)
        Add waveform to sequencer acquisition path.

    _add_awg_waveform(sequencer, awg, name, size, is_integer)
        Add waveform to sequencer AWG path.

    _arm_sequencer(sequencer)
        Arm sequencer.

    _check_error_queue(err=None)
        Check SCPI error queue

    _check_in_type(in_arg_dict, in_type_list)
        Check input types

    _delete_acq_acquisition(sequencer, acq, path, name)
        Delete acquisition from sequencer acquisition list.

    _delete_acq_waveform(sequencer, acq, name)
        Delete waveform from sequencer acquisition path.

    _delete_awg_waveform(sequencer, awg, name)
        Delete waveform from sequencer AWG path.

    _get_acq_acquisition_data(sequencer, acq, path, name, start, size)
        Get acquisition data from sequencer acquisition list.

    _get_acq_acquisition_length(sequencer, acq, path, name)
        Get acquisition length from sequencer acquisition list.

    _get_acq_acquisitions(sequencer, acq, path)
        Get all acquisition names from sequencer acquisition list.

    _get_acq_num_acquisitions(sequencer, acq, path)
        Get number of acquisition in sequencer acquisition list.

    _get_acq_num_waveforms(sequencer, acq)
        Get number of waveforms in sequencer acquisition path.

    _get_acq_waveform_data(sequencer, acq, name, start, size)
        Get waveform data from sequencer acquisition path.

    _get_acq_waveform_index(sequencer, acq, name)
        Get waveform index from sequencer acquisition path.

    _get_acq_waveform_length(sequencer, acq, name)
        Get waveform length from sequencer acquisition path.

    _get_acq_waveform_name(sequencer, acq, index)
        Get waveform name from sequencer acquisition path based on index.
```

```
_get_acq_waveforms (sequencer, acq)
    Get all waveform names from sequencer acquisition path.

_get_awg_num_waveforms (sequencer, awg)
    Get number of waveforms in sequencer AWG path.

_get_awg_waveform_data (sequencer, awg, name, start, size)
    Get waveform data from sequencer AWG path.

_get_awg_waveform_index (sequencer, awg, name)
    Get waveform index from sequencer AWG path.

_get_awg_waveform_length (sequencer, awg, name)
    Get waveform length from sequencer AWG path.

_get_awg_waveform_name (sequencer, awg, index)
    Get waveform name from sequencer AWG path based on index.

_get_awg_waveforms (sequencer, awg)
    Get all waveform names from sequencer AWG path.

_get_idn ()
    Get device identity and build information.

_get_reference_source ()
    Get reference source.

_get_scpi_commands ()
    Get SCPI commands.

_get_sequencer_config (sequencer)
    Get sequencer configuration.

_get_sequencer_state (sequencer)
    Get sequencer state.

_get_system_status ()
    Get general system status.

_set_acq_acquisition_data (sequencer, acq, path, name)
    Set acquisition data in sequencer acquisition list from acquisition path.

_set_acq_waveform_data (sequencer, acq, name, waveform)
    Set waveform data in sequencer acquisition path.

_set_acq_waveform_index (sequencer, acq, name, index)
    Set waveform index in sequencer acquisition path.

_set_awg_waveform_data (sequencer, awg, name, waveform)
    Set waveform data in sequencer AWG path.

_set_awg_waveform_index (sequencer, awg, name, index)
    Set waveform index in sequencer AWG path.

_set_reference_source (internal)
    Set reference source.

_set_sequencer_config (sequencer, config)
    Set sequencer configuration.

_set_sequencer_program (sequencer, program)
    Program sequencer.
```

```
_start_sequencer(sequencer)
    Start sequencer.

_stop_sequencer(sequencer)
    Stop sequencer.

clear()
    Clear all status registers.

get_assembler_log()
    Get assembler log.

get_assembler_status()
    Get assembler status.

get_current_afe_temperature()
    Get analog frontend temperature.

get_current_carrier_temperature()
    Get current carrier temperature.

get_current_fpga_temperature()
    Get current FPGA temperature.

get_maximum_afe_temperature()
    Get analog frontend temperature.

get_maximum_carrier_temperature()
    Get maximum carrier temperature.

get_maximum_fpga_temperature()
    Get maximum FPGA temperature.

get_num_system_error()
    Get number of system errors.

get_operation_complete()
    Get operation complete status.

get_operation_condition()
    Get operation condition.

get_operation_enable()
    Get operation enable.

get_operation_events()
    Get operation events.

get_questionable_condition()
    Get questionable condition.

get_questionable_enable()
    Get questionable enable.

get_questionable_event()
    Get questionable events.

get_service_request_enable()
    Get service request enable.

get_standard_event_status()
    Get standard event status.
```

```
get_standard_event_status_enable()
    Get standard event status enable.

get_status_byte()
    Get status byte.

get_system_error()
    Get system error from queue.

get_system_version()
    Get system version.

preset_system_status()
    Preset system status registers.

reset()
    Reset device.

set_operation_complete()
    Set operation complete command.

set_operation_enable(reg)
    Get operation enable.

set_questionable_enable(reg)
    Set questionable enable.

set_service_request_enable(reg)
    Set service request enable.

set_standard_event_status_enable(reg)
    Set standard event status enable.

test()
    Run self-test.

wait()
    Wait-to-continue.
```

CHAPTER 3

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T

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