```
    blocks

    channels

    homogenous

    curr_block

    types_ordered

types_input
block_info
- samples
+ SampleBlock()
+ ~SampleBlock()
+ getNrOfBlocks()
+ getNrOfChannels()
+ getNrOfSamples()
+ getNrOfSignalTypes()
+ deleteSamples()
+ reset()
+ at()
+ operator[]()
+ init()
+ getTypes()
+ getSamples()
+ getFlagByNr()
+ getSignalByFlag()
+ getSignalByNr()
+ appendBlock()
+ setSamples()

    sort()

- checkBlockIntegrity()
             < double >
                                       Constants
                                + tobi
                                + subject
                                + s_id
                                + s_name
                                +s sex
                                + s_birthday
                                + SS
                                + ss_tcp
                                + ss_udp
                                + hardware
                                + hardware_name
                                + hardware_version
                                + hardware_serial
                                + hw_mode
                                + hw_ds
                                + hw_fs
                                + hw_channels
                                + hw_ch_nr
SampleBlock< double >
                                + hw_ch_names
- blocks
                                + hw_ch_type
                                + hw_buffer

    channels

                                + hw_fil

    homogenous

    curr_block

                                + hw_fil_type
types_ordered
                                + hw_fil_order
                                + hw_fil_low
types_input

    block_info

                                + hw_fil_high
- samples
                                + hw_not
                                + hw_not_center
+ SampleBlock()
                                + hw_opmode
+ ~SampleBlock()
                                + hw_sc
+ getNrOfBlocks()
                                + hw_usbampmaster
+ getNrOfChannels()
                                + hw_comgnd
+ getNrOfSamples()
                                + hw_gnd
+ getNrOfSignalTypes()
                                + hw_gnd_block
+ deleteSamples()
                                + hw_gnd_value
+ reset()
                                + hw comref
+ at()
                                + hw_cr
+ operator[]()
                                + hw_cr_block
+ init()
                                + hw_cr_value
+ getTypes()
                                + hw_cs
+ getSamples()
                                + hw_sel
+ getFlagByNr()
                                + hw_cs_ch
+ getSignalByFlag()
                                + hw_cs_nr
+ getSignalByNr()
                                + hw_cs_name
+ appendBlock()
                                + hw_bip
+ setSamples()
                                + hw_bip_with

    sort()

                                + hw_drl

    checkBlockIntegrity()

                                + hw_drl_value

    supported_hardware

    signaltypes

                                usbamp_filterTypes
                                usbamp_opModes

    usbamp_blockNames

                                + Constants()
                                + ~Constants()
                                + isSupportedHardware()
                                + isSineGen()
                                + isUSBamp()
                                + isMobilab()
                                + equalsOnOrOff()
                                + equalsMaster()
                                + equalsSlave()
                                + getUSBampFilter()
                                + getUSBampOpMode()
                                + getUSBampBlockNr()
                                + getSignalFlag()
               data
                           cst
            HWThread
# nr_ch
                                                           DataPacket
# samples_available
# blocks

    flags

# master
                                                     packet_nr
# cond
                                                     nr_signal_types
# rw
                                                     - nr_blocks
# sync_mut
                                                     nr_values
# channel_info
                                                     - data
# homogenous_signal_type
                                                     - raw_map
# channel_types
                                                     - sample_nr
# m
# m_gs
                                                     + DataPacket()
# m_cs
                                                     + DataPacket()
# cst
                                                     + ~DataPacket()
# data
                                                     + DataPacket()
                                                     + reset()
+ HWThread()
                                                     + incSampleNr()
+ HWThread()
                                            cst
                                                     + insertDataBlock()
+ ~HWThread()
                                                     + setPacketNr()
+ getName()
                                                     + hasFlag()
+ isMaster()
                                                     + getNrOfSignalTypes()
+ hasHomogenousSignalType()
                                                     + getFlags()
+ getNrOfBlocks()
                                                     + getSampleNr()
+ getSamplingRate()
                                                     + getNrOfBlocks()
+ getNrOfChannels()
                                                     + getNrOfValues()
+ getChannelTypes()
                                                     + getData()
+ getChannelInfoMap()
                                                     + getSingleDataBlock()
+ samplesAvailable()
                                                     + getRaw()
+ checkMandatoryHardwareTags()
                                                     + getRawMemorySize()
+ getSyncData()
                                                     - calcNrOfSignalTypes()
+ getAsyncData()
                                                     - flagsOK()
+ run()
                                                     - setFlag()
# setSamplingRate()
                                                     getDataPos()
# setDeviceChannels()
                                                     getOffset()
# setBlocks()
# setChannelSelection()
# setChannelTypes()
# isNumber()
                                                  packet
                                  master
                                      HWAccess
                             - packet
                             - slaves

    master

    fs ratio

                             - sample_it

    cst

                             + HWAccess()
                             + ~HWAccess()
                             + getDataPacket()
                             + startDataAcquisition()
                             - checkHWSetup()

    checklfSingleMaster()

                             setMasterSlaveRatio()
```

reportInHomogenousDevice()

SampleBlock< T >