RELEASEnotes

These release notes describe updates from Perception (including GEN series firmware)

V7.12.17178 to V7.14.17314

Supported/Tested on latest Windows versions including all updates until 23th October 2017:

- Windows 7 Ultimate SP1   (64 and 32 bit)
- Windows 8 Pro   (64 and 32 bit)
- Windows 8.1 Pro   (64 and 32 bit)
- Windows 10 Pro   (64 bit only)

Notes:

Perception is no longer supported on Windows XP and only tested on Windows Vista for GEN5i use

Perception 32-bit version is no longer actively distributed.

Perception 32-bit version can be downloaded from the HBM website

Installation requirements:

- Dot Net Framework V4.6
  (distributed with the install CD and available for download on the internet)
- Microsoft Direct3D® capable graphics card.

Supported/Tested Genesis High Speed platforms:

- GEN2i
- GEN3i
- GEN3t
- GEN5i
- GEN7i
- GEN7t
- GEN7tA
- GEN16t
- GEN17tA
- ISOBE5600
- BE3200

Note: Setup and recording data with LIBERTY, BE256 and MultiPro is no longer supported by Perception.

Supported/Tested QuantumX Modules:

- MX1609KB
- MX1609TB
- MX471B
- MX809B

Note: Perception includes and only works with the following QuantumX software components

QuantumX firmware: V4.10.4.0

HBM QuantumX API: V4.3.1.171

HBM common API: V2.0.1.2

Patents no: 7,868,886

RELEASEnotes

Perception is available in 3 paid versions:

- 1-PERC-VA-01-2   Perception Viewer Enterprise
- 1-PERC-AD-01-2   Perception Advanced
- 1-PERC-E64-01-2   Perception Enterprise

Perception supports the following application extensions:

- 1-PERC-OP-EDR   eDrive application (setup, live and efficiency mapping table)
- 1-PERC-OP-STL   Advanced High Voltage/High Power analysis according STL standards
  Including 1-PERC-OP-HHP HP-HV Automated Analysis
- 1-PERC-OP-HIA   High Voltage Impulse Analysis
- 1-PERC-OP-CSI-2   CSI Runtime extensions (Customized Software Interfaces)

Perception upgrade notes

1-PERC-ST-01-2 Perception Standard no longer requires a key

The following options are now included in any Perception Version

- 1-PERC-OP-IF   SOAP & RPC Interface
- 1-PERC-OP-SEQ   Sequencer (BE3200) setup and control

Existing paid Viewer licenses are automatically upgraded to Viewer Enterprise.

Existing Perception Standard licenses are automatically upgraded to Perception Advanced when one of the following options is found in your license key:

- 1-PERC-OP-AN   Analysis (Formula database)
- 1-PERC-OP-RP   Reporting & Word Reporting
- 1-PERC-OP-MEX   Multiple Exports formats
- 1-PERC-OP-VP   Video Playback
- 1-PERC-OP-MWB   Multiple Workbooks
- 1-PERC-OP-IS   Customized Info sheets

Existing Perception Professional licenses are automatically upgraded to Perception Enterprise when one of the following options is found in your license key:

- 1-PERC-OP-MMF   Multiple Mainframes
- 1-PERC-OP-BFFT   Basic FFT
- 1-PERC-OP-SDB   Sensor Management

RELEASEnotes

New or improved features:

New	**Remote support:** Enable automatic and manual diagnostics and user file (eg recordings/VWB files etc) uploads to HBM cloud based server.
New	**System control:** Setup and control for the new GN1202B optical receiver card
New	**System control:** Control the digital output pins of the activating mainframe digital/event timer counter connector(s) from User key
Improved	**System control:** GN110 to GN113 serial number of channels are not visible in Perception
Improved	**RPC programming:** SetChannelEnabled() does not support marker channels & TimerCounter channels
Improved	**Recording export:** Reduced time to show the settings dialog
Improved	**Recording export:** Allow export to Excel without having Excel installed
Improved	**Recording export:** Removed 65k values Excel limit for newer versions of Excel
Improved	**Recording export:** Export selection "all channels" didn't work
Improved	**Recording export:** Export fails on sweeps with 100% pretrigger
New	**Navigator:** Mainframe property tooltip information in hardware navigator
New	**Y-t display:** Allow AUTO Y-AXIS ALL and RESTORE Y-AXIS ALL from display context menu to set Y-scale of all traces with 1 mouse click.
New	**Y-t display:** Enable setting cursor at specific time when displays are in ReviewSweep mode
Improved	**Y-t display:** Perception becomes unresponsive when replay is activated with main and zoom window shown
Improved	**FDB:** Wrong units returned for @CycleCrestFactor() function
New	**FDB and RTFDB:** Enable skipping the definition of one or more optional arguments in formulas example @CycleDetect(Mysignal; 0.1 ; ; 1)
Improved	**RTFDB:** Incorrect meter data when using technical unit multiplier in channel setup
New	**eDrive:** Enable speed/angle measurement using a frequency and direction signal instead of ABz (Quadrature) encoder signals
New	**eDrive:** Enable automatic setups of different 6 phase engines
New	**eDrive:** Automatic motor mapping table with CSV export to eg Matlab.
New	**eDrive:** Add Timeout argument to CycleDetect en CycleEvent
Improved	**eDrive:** Optimized DSP mathematic to allow more real time math
Improved	**eDrive:** Added number of polepairs entry field to enable correct calculations
New	**eDrive:** Added a "Read more" link to open the CT wiring requirements PDF
New	**eDrive:** Sensor database setup for 1.5 kV and 5 kV probes
Improved	**eDrive:** Perception 7.12 (eDrive enabled) on GEN3i stops responding when switching to Instrument Panel
Improved	**eDrive:** Motor-Generator setup on GEN3i/GEN3t causes problems
Improved	**Instrument Panel:** Entering numerical values gives rounding problem

RELEASEnotes

Improved	**Macro manager:** Duplication of a macro fails
New	**Support import dataformats**: Saturn Data File (sdf) recording loader for loading AMO data files
Improved	**BE3200/Sequencer:** Pulse start time changes not handled correctly.
New	**STL:** New STLX_SignalStart() and STLX_SignalEnd() functions. STL define SignalStart and SignalEnd at 3% full scale level crossing. The STLX functions first use the defined STL function and then search for the actual zero crossing.

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