

# RELEASEnotes

## Perception & GEN Series firmware V7.12.17178

These release notes are:

Perception:

from V7.00.16336 to V7.12.17178

GEN series firmware:

from V7.00.16336 to V7.12.17178

Firmware release notes are an integral part of the software and these release notes.

**IMPORTANT:** Perception 32-bit version is no longer actively distributed and is only available for GEN2i systems and users running 32-bit Windows. Perception 32-bit version (7.12.17178) is available for download from the HBM website. Perception Enterprise (1-PERC-E64) is no longer required to run the 64-bit version of Perception.

### Supported/Tested Windows 32 bit versions:

- Windows 7 Ultimate SP1
- Windows 8 Pro
- Windows 8.1 Pro
- Windows 10 Pro

### Supported/Tested 64 bit versions:

- Windows 7 Ultimate SP1
- Windows 8 Pro
- Windows 8.1 Pro
- Windows 10 Pro

And Windows Updates until 9<sup>th</sup> May 2017.

**IMPORTANT:** Perception is no longer supported on Windows XP and Windows Vista, GEN5i still tested for Vista

### Supported/Tested Genesis High Speed platforms:

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

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**IMPORTANT:** LIBERTY, BE256 and MultiPro are no longer supported by Perception. Data recorded with these units is still accessible using Perception.

## Supported/Tested QuantumX Modules:

- MX1609KB
- MX1609TB
- MX471B
- MX809B

QuantumX firmware:  
V4.6.26.0

HBM QuantumX API:  
V4.3.1.171

HBM common API:  
V2.0.1.2

All Perception versions require Dot Net Framework V4.6 which will be distributed with the install and is also available for download on the internet.

All Perception versions also require a Microsoft Direct3D® capable graphics card.

## Patents:

Patent No. 7,868,886

## This version is distributed using the following editions:

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

**IMPORTANT:** Existing Viewer licenses are automatically upgraded to Viewer Enterprise. Existing Perception Professional licenses are automatically upgraded to Perception Enterprise

## The following options are part of this version:

- 1-PERC-OP-MWB Multiple Workbooks
- 1-PERC-OP-MEX Multiple Exports formats
- 1-PERC-OP-MMF Multiple Mainframes
- 1-PERC-OP-AN Analysis (Formula database)
- 1-PERC-OP-RP Reporting & Word Reporting
- 1-PERC-OP-IF SOAP & RPC Interface
- 1-PERC-OP-VP Video Playback
- 1-PERC-OP-CSI-2 CSI Runtime
- 1-PERC-OP-STL Advanced High Voltage/High Power analysis (STL)
- 1-PERC-OP-IS Customized Info sheets
- 1-PERC-OP-HHP HP-HV Automated Analysis

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- 1-PERC-OP-BE BE256 / MultiPro Control
- 1-PERC-OP-BFFT Basic FFT
- 1-PERC-OP-HIA HVIA
- 1-PERC-OP-SEQ Sequencer (BE3200)
- 1-PERC-OP-SDB Sensor Management
- 1-PERC-OP-EDR eDrive application (setup & live)

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The following new features were added:

## Perception:

- 11638 eDrive: support analogue speed input
- 11753 eDrive project: Add MX471 channels as METER selections in the eDrive LIVE / MORE METERS section and to GeteDriveResults call
- 11754 eDrive projects: Allow Synch Source to be "z" pulse of speed encoder
- 11792 Copperbird: CycleCrestFactor in RTC channels
- 11798 eDrive: Support "Multi Sweep" and "Continuous specified time" acquisitions in GUI
- 11847 Add C-type thermocouple support for MX809B
- 11903 Add CycleFundamentalRMS to Formula Database and Real-Time Formula Database
- 11928 Add MDF4 export format
- 11949 eDrive: Allow separate filter settings for Power Source in DC
- 11962 eDrive: Allow eDrive application to run with a single acquisition card.
- 11963 RT-FDB: Add @CycleEvent to allow detection of cycles based on event channels
- 11964 Add Macro manager: Create automated execution and reuse of (multiple) user actions.
- 11966 eDrive - Make results of user defined RT-FDB available
- 11967 eDrive - Allow timed cycle detect input for DC input block
- 11971 Add HBM push notifications to Perception

## GEN Series firmware:

- 11960 Display and store output of @HWFilter RT-FDB

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The following Improvements were made:

## Perception:

- |       |   |
|-------|---|
| 11633 | eDrive: compute cumulative fundamental voltage and cumulative fundamental currents      |
| 11649 | eDrive project: Clarify to users what SPAN means  |
| 11968 | eDrive: RMS values from fundamental I and U   |
| 11969 | eDrive - Enable averaged meter readings   |
| 11705 | eDrive project: Add Quick Start guide into installation and potentially into Perception |

## GEN Series firmware:

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|-------|--|
| 11959 | Support timer-counter when 16-bit sample width is selected (type B cards only) |
| 11961 | GN1640B / GN840B: Increased filter bandwidth in temperature mode               |

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The following errors have been fixed:

## Perception:

- 11310 Channel name with plus and minus sign causes problems
- 11856 Averaging FFT keeps history at start of recording
- 11862 eDrive: Extend dialog showing mainframe is not supported
- 11875 @RiseTime() result differences FDB versus 'Calculator'
- 11885 RTFDB alias of a channel of a recorder after a disabled recorder will not be shown on a display.
- 11890 Hang-up of Perception after loading a VWB created after creating a new workbench using autoconfigure
- 11896 Aliases on Event bits are not stored properly
- 11897 End Perception support for Windows Vista systems
- 11900 Instrument panel crash upon lock on Windows 10 – 64 bit
- 11902 Channel names containing 'special characters' might give uniqueness challenges in datasource names
- 11905 Peak hold meter doesn't clear for new recording
- 11906 eDrive: Force close sweeps on next trigger even if no data was received
- 11910 RPC call "GetModule2EtherCATMapping" misses last character of items
- 11915 Appending cursor table to Excel, causes new sheets to be created every call
- 11917 Perception freeze when acquisition control panel opened
- 11935 Channel alarm level set outside of channel's span activates alarm
- 11940 User Sheet with image cannot be saved in virtual workbench
- 11941 Report to Word "Build" dialog doesn't remember automated naming selections
- 11942 Alarm out feature has inconsistent behavior for marker channels
- 11943 Master/Slave functionality fails when Master Output Card together with GPS/IRIG card in OCC
- 11948 Reduce function returns incorrect signal when not starting at 0
- 11952 Calibration info datasources don't show correct values
- 11977 eDrive: FFT display causes eDrive to become very sluggish

## GEN Series firmware:

- 11872 When PTP synced to a grandmaster of class 7 or less, the GHS cannot recover when the grandmaster disappears during a recording.
- 11904 IM1 needs to be supported in absence of battery
- 11919 External timebase: when creating a long recording or using a fast external timebase, live data may disappear and not come back until mainframe is rebooted
- 11945 Alarm out is generated, even if channel with alarm signal + settings is disabled

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- 11951 GHS is serving UTC time when acting as PTP Master.
- 11988 IM2 cannot be upgraded after version 7.10 is installed.

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