

RELEASEnotes

1 Introduction:

These release notes contain:

- Update information
- What is new
- What is improved
- Supported Windows platforms
- Supported Genesis High Speed platforms
- Supported QuantumX modules
- Licensing information

NOTE: Perception is no longer supported on Windows™ Vista.

2 Version 7.38

2.1 Update information:

These release notes describe changes between Perception (including GEN series firmware) versions

V7.30.18324 and V7.38.19042

2.2 New Features

Digital signal filter	It is now possible to select the minimum width of pulse on a digital signal before it is accepted. This allows filtering of spikes on noise signals by increasing the minimum pulse width. This option is available for: <ul style="list-style-type: none">• External start• External stop• External trigger detection• External clock• Timer/Counter channels
Pulse detector	Pulse detection is now available for: <ul style="list-style-type: none">• GN1202B• GN610B• GN840B• GN1640B

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2.3 What is improved:

Mainframe stability improvements	Improved mainframe software stability (in some corner cases, making changes to a formula setup and/or using a CAN dongle caused instabilities)
EtherCAT	The GEN series EtherCAT slave now recovers to operational state after loading configured boot settings.
QuantumX support	Fixed case where QuantumX units sometimes reported a false positive 'no sensor attached'. Now reading units from QX unit instead of reporting V always First connection after upgrade could show incorrect number of channels, this is fixed.
Word reporting	In reporting, bookmarks for bitmaps now correctly resize
Print Settings	Printing settings to PDF no longer causes Perception to crash
Formula database	Improved performance of TrueRMS function Improved responsiveness of displaying data from the formula database Improved cursor readout stability when moving cursor in combination with certain Formula Database entries.
eDrive	FFT data was not always shown, this has been improved. eDrive now supports setup of sweeps up to 5 seconds
RTFDB	Using a multiple mainframe test setup in combination with RTFDB sometimes caused problems in deploying the formulas to the mainframes.
Review while recording	Timer-counter channels in review while recording could cause Perception to exit prematurely.
Digital filter	When using digital filters, the decimation rate used could be below the selected sample rate. As the data is recorded with the selected sample rate, a set of 100% identical samples is stored before a new value will occur. Applies to: <ul style="list-style-type: none"> • GN1202B • GN8101B • GN8102B • GN8103B <p>This issue exists in Perception V7.30 and preview versions V7.32, V7.34 and V7.36</p>

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2.4 Supported/Tested on latest Windows versions

Including all updates until January 2019:

- Windows 7 Ultimate SP1 (64 and 32 bit)
- Windows 8.1 Pro (64 and 32 bit)
- Windows 10 Pro 1607 and higher (64 bit only)

Notes:

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

Installation requirements:

- Dot Net Framework V4.7.2
(distributed with the install CD and available for download on the internet)
- Microsoft Direct3D® capable graphics card.

2.5 Supported/Tested Genesis High Speed platforms:

- GEN2i
- GEN2tB
- GEN3i
- GEN3t
- GEN5i
- GEN7i
- GEN7t
- GEN7tA
- GEN16t
- GEN17tA
- ISOBE5600
- BE3200

Notes:

IM1 modules are no longer supported. Perception 7.30 or higher will notify you if this applies to your hardware.

2.6 Supported/Tested QuantumX Modules:

- MX1609KB
- MX1609TB
- MX471B
- MX809B

Data streaming is available for all other B type or later QuantumX modules.

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

QuantumX firmware: V4.12.32.0
HBM common API: V4.0.0.7

Patents no: 7,868,886

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2.7 Perception licenses:

Version	Description	
1-PERC-ST-01-2	Perception Standard	Free
1-PERC-AD-01-2	Perception Advanced	Paid
1-PERC-VA-01-2	Perception Viewer Enterprise	Paid
1-PERC-E64-01-2	Perception Enterprise	Paid

2.7.1 Perception supports the following application extensions:

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

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