

# RELEASEnotes

## Perception & GEN Series firmware V6.70.15224

These release notes are:

Perception:

from V6.62.15105 to V6.70.15224

GEN series firmware:

from V6.62.15105 to V6.70.15224

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

### Supported/Tested Windows 32 bit versions:

- Windows Vista Business SP2
- Windows Vista Ultimate SP2
- Windows 7 Ultimate SP1
- Windows 8 Pro
- Windows 8.1 Pro

### Supported/Tested 64 bit versions:

- Windows Vista Business SP2
- Windows Vista Ultimate SP2
- Windows 7 Ultimate SP1
- Windows 8 Pro
- Windows 8.1 Pro

And Windows Updates until 10<sup>th</sup> March 2015.

Note: Preliminary tests on Windows 10 were also performed.

**IMPORTANT:** Perception is no longer supported on Windows XP.

### Supported/Tested Genesis High Speed platforms:

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

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**IMPORTANT:** LIBERTY is no longer supported by Perception

Supported/Tested QuantumX Modules:

- MX1609KB
- MX1609TB
- MX471B

All Perception versions require Dot Net Framework V4.0 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:

- 1-PERC-VW            Viewer Edition
- 1-PERC-VA           Viewer Advanced
- 1-PERC-ST           Standard Edition
- 1-PERC-AD           Advanced Edition
- 1-PERC-PRO          Professional Edition
- 1-PERC-E64          Enterprise Edition

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
- 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 features have been added:

## Perception:

- 11502 eDrive project: Change formula for ETA pending from motor or generator mode
- 11503 eDrive project: Add RPC method to force a logging to EXCEL / XLM from the LIVE sheet
- 11504 eDrive project: Add LIVE calculation of Fundamental Power per phase and Cumulative
- 11505 eDrive project: Add LIVE calculation for CosPhi between fundamental voltages and currents
- 11509 eDrive project: Allow new application variant: Motor-Generatortest
- 11524 Stop Liberty support for Perception 7.0 and beyond
- 11536 eDrive project: Allow "Phase to Ground" configuration at inverter output
- 11590 Allow more than one CycleSource on acquisition card RTC channels
- 11591 New parameter to skip zero crossings for finding next or previous zero crossing for the STL functions STLPrevZeroCrossing and STLNextZeroCrossing
- 11592 Add Median Filter function to formula database
- 11598 Add function for NaN (Not a Number)
- 11611 eDrive project: Add Phi per phase to datasources (and to eDrive result table)
- 11618 Add New formula to FDB: SweptSine
- 11636 eDrive: Add entry field for "number of pole pairs"
- 11487 Support data recording from MX471B

The following improvements have been made:

## Perception:

- 11540 Add option to rename mainframe in the hardware tree
- 11562 eDrive project: Meters should not use Prefix like u or m to allow easier readout of "close to zero"
- 11586 Change wording in Print settings / Select items to print
- 11595 Logfile selection area for data sources should be wider (and higher?)
- 11630 eDrive: Activate Cycle optimization by default
- 11631 eDrive: Raise warning when creating formula

The following errors have been fixed:

## Perception:

- 10549 Long parameter name does not fit in Formula description panel
- 10648 Technical Units Missing on @TrueRMS Cursor Table
- 11339 RTS PTP driver has problem when receiving high throughput data from external mainframe

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- 11364 Inconsistent behavior between Perception & user manual. The menu item 'switch to instrument panel' is only available when the preference: "User Interface Mode = Instrument Panel" has been set.
- 11538 Some multiple sweeps shown in ReviewSweep pane while recording in multi sweep mode
- 11539 Information Sheet: Field property Persistent does not work as expected
- 11543 Very short slow / fast sweep recordings are missing slow data on a 100MS/s board
- 11548 QuantumX driver does not fire trigger status changed event
- 11549 eDrive project: When using a sensor in the eDrive setup sheet the calibration period is not checked; so no warning when "out of calibration"
- 11563 eDrive project: LIVE computations should continue in the background even is eDrive LIVE sheet is frozen
- 11573 Timer Counter channel gets wrong Datatype when selecting "save a copy as" on Review while recording data
- 11605 Cell padding in report table changes without user input
- 11613 UTCTime / Trigger Time / TriggerTimeToText formulas produce faulty results in datasource
- 11614 Report: Perception fails when selecting blank line in Text Element editor
- 11617 eDrive: Disabled filter is turned on when selecting "none" sensor
- 11619 When saving workbench with XY or Spectral display on "not active" sheet, the Control bar is invisible when loading back the workbench
- 11622 Minor bugs in printing of Perception report
- 11628 Recording data not displayed on Windows 7 without SP1
- 11641 Infosheet: Required field does not work
- 11644 Information sheet: In Properties dialog the checked status of checkbox Clear after recording is not remembered
- 11648 Zero Balance Bridge - Not remembering Saved Warning Level % Settings
- 11652 CTRL-C (Copy) does not work in Sensor Database
- 11654 Automation sometimes gives empty cells or NaN in log file
- 11656 Access violation when customer opens PNRF file on 32 bit Perception
- 11663 eDrive: External Start Stop setting on recorder is blocked
- 11664 Sequencer: Loading back sequence containing linked channels does not restore li

## GEN Series firmware:

- 11603 IM2 fails on rebooting when iSCSI disk is mounted
- 11607 GEN3i/GEN7i interface module service fails
- 11659 35 seconds time difference between IM3 master and slaves
- 11660 Genxi ptp master sometimes uses 1970 as PTP time.

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