RELEASEnotes

Perception & GEN Series firmware V6.60.15040

These release notes are:
Perception:
        from V6.52.14260 to V6.60.15040

GEN series firmware:
        from V6.52.14260 to V6.60.15040

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

Supported/Tested 64 bit versions:

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

And Windows Updates until 22nd January 2015.

IMPORTANT: Perception is no longer supported on Windows XP.

Supported/Tested Genesis High Speed platforms:

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

IMPORTANT: LIBERTY supported will be dropped in the next version* of Perception
*Potentially excluding unscheduled service packs.

RELEASEnotes

Supported/Tested QuantumX Modules:

- MX1609KB
- MX1609TB

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)

RELEASEnotes

The following features have been added:

Perception:

10201	eDrive project Phase 1: Formula database: Speed enhancement by caching already calculated trace data
11175	eDrive project: Add Formula database function to extract the fundamental frequency and its amplitude out of complex signal
11429	Formula sheet: allow drag drop to organize formulas
11447	Add possibility to create & expand/compress regions in the formulas
11448	Add possibility to suppress variable paths (namespace) in formulas to increase readability
11477	Added new STL function called: @STLX_SymmetricalPowerFactorNoAssymetryCheck
11482	eDrive project: Improve cycle detection stability by adding signal filter and retrigger hold off
11483	eDrive project: Add Space Vector and Inverse Space Vector calculation to Formula database
11484	eDrive project: Add dq0 transformation (Park transformation) to Formula database
11485	eDrive project: Add Cycle Fundamental and Cycle THD calculations to Formula database
11486	eDrive project: Add Cycle RPM computation from angle to Formula database
11488	eDrive project: Add LIVE calculation for THD for all voltage and current channels
11489	eDrive project: Add LIVE calculation for Fundamental RMS for all voltage and current channels
11490	eDrive project: Allow creation of regions in Formula database
11491	eDrive project: Allow suppression of namespace display in Formula database
11492	eDrive project: Add new function group "eDrive" to Formula database
11493	eDrive project: Enable real time computation of mechanical angle in timer/counter inputs
11494	eDrive project: Allow RPM reading & trace to be inverted
11495	Add new RPC method to fill INFO sheet variable from remote host
11496	eDrive project: Allow LIVE calculation on TIME instead of cycle sources only
11497	eDrive project: Add user selectable prefix k and M to LIVE meter displays
11498	eDrive project: Allow Cycle source display in LIVE SCOPE with hysteresis levels and filter effect
11499	Operator/Definer mode
11500	eDrive project: Allow rpm and angle instantaneous traces to be shown in LIVE SCOPE
11501	eDrive project: Support a,b,z incremental encoders for angle with reference pulse measurements in real-time
11520	Add ACos and ASin formula's
11523	Add the modulo function to the formula database
11526	Add datasource containing Perception version number
11557	Make PTP 'out of sync' threshold user define-able (default = 150 ns)

RELEASEnotes

GEN Series firmware:

10465   Add the network scan and TCP/IP settings options of the QuantumX systems

11465   Perform Linux virus scan prior to releasing embedded software

RELEASEnotes

The following improvements have been made:

Perception:

10632   eDrive project: Allow Shunt calibration of Torque flanges using Dig out of GEN DAQ

11481   Network load warning when storing to mainframe disk

11506   Formula database calculation performance should be increased

11507   Formula database with large datasets takes a long time loading / initiating a recording

The following errors have been fixed:

Perception:

11011   Translation errors: Software translation issues in Portuguese

11083   Cal period set to "non applicable" has no effect.

11084   Cursor table in display and linked cursor table in report show different value

11233   HASP driver distributed with Perception doesn't work on Windows 8.1

11259   Formula Cycle detect does not show results in review while recording

11353   Demo DVD data has reference to formula with lower case letter when upper case is required.

11367   Instrument Panel - Save setup dialog "Size" label isn't fully visible

11368   CSI created: Duplicated Function Handling

11377   Reset mainframe connection password not possible on GEN3t

11382   STLNext3CrestRMS generates an NaN value for a sinusoidal signal

11384   When changing the User Mode to DUAL wrong settings for the Continuous acquisition Mode are possible

11405   Bridge wizard "links", jump to wrong wizard page

11407   Display: traces disappearing at certain time scales when in Continuous mode, stop on trigger

11417   Configure log file: "Enable log file record replacement" does no longer seem to work

11422   Sweep based automation does not work correctly with delayed triggering or non time-aligned sweeps

11424   Famos Export problem when strings (e.g. experiment name) contain Unicode characters

11430   Cannot select sensor from sensor list after using any of the "arrow" scroll signs

11431   Cannot select sensor from list after search and clicking on it

11433   eDrive: sheet when loaded should force Perception to continuous mode

11450   eDrive Sensor Data Base doesn't allow to change parametrization in Online Modus

11458   Expected samples from a Data call are sometimes lost or sometimes samples that are not requested are returned.

11459   Cannot set auto number to start higher than 100 in Automation

11471   eDrive: INFO fields set to "required" are not checked if eDrive RECORD button is used

RELEASEnotes

11475   Phaseless filters with filter-order=1 are not working

11478   Timer for conditional Start/Stop is not enabled after loading the virtual workbench but still effective

11479   Perception should check automatically for updates every month

11480   Two point scaling in Instrument Panel does not allow negative values

11508   Automation export with resampling doesn't work correct when selecting highest or lowest rate

11522   Problem with message box send from a CSI sheet which blocks Perception completely

GEN Series firmware:

11373   100MS/s board, Multi Sweep: Sweep gets truncated when memory is almost full.

11474   16/32 Channel Trigger Hystersis Settings in Charge Mode

11525   I2C problems on GEN3i/GEN7i when new device (FPGA or Carrier) is being detected

11542   GEN3t reboots when forced to record to PC storage at higher speed than network supports

11553   External Clock: Acquisition-Stop times out when external clock has stopped in the middle of a sweep.