

RELEASEnotes

1 Version 8.06

1.1 Update information:

These release notes describe changes between Perception (including GEN series firmware) versions V8.02.20295 and V8.06.21018

1.2 Mid- and long-term support roadmap

Starting with Perception V8.00 some legacy features, mainframe and card support are no longer present.
(A Perception V7.6x maintenance version is available for critical bug fix support)

1.2.1 Supported on latest Windows versions

Including all updates until July 2020:

- Windows 10 Pro 1607 and higher (64 bit only)

Installation requirements:

- Dot Net Framework V4.8
(distributed with the install CD and available for download on the internet)
- Microsoft Direct3D® capable graphics card.

1.2.2 Downgrade

Perception V8.0x can be downgraded to the following versions.

- Perception V7.6x
- Perception V7.5x

1.3 Perception versions

Version	Description	
	Perception Standard	Free
1-PERC-AD-0x	Perception Advanced	Paid
1-PERC-VA-0x	Perception Viewer Enterprise	Paid
1-PERC-E64-0x	Perception Enterprise	Paid

1.3.1 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	CSI Runtime extensions (Customized Software Interfaces)	Paid

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1.4 New Features

RTFDB auto display range	The RTFDB output display range is now automatically determined based on the input channel display range(s) and the chain of follow up RTFDB calculations. When the auto range feature is active, the output display range is updated matching input channel range changes. The resulting output display ranges can be finetuned using the "Display Range Factor" and "Display Range Offset" columns that have been added to the Real Time Calculations table.
ePowerSuite workbench backwards compatibility	Loading back a VWB where an event bit was selected as as cycle source threw an exception. This selection is not supported in ePower and is now changed to an 'empty' selection. The user of such a VWB will need to make some more changes before he can reuse this VWB.
Sample rate increase	GN810xB: Maximum continuous sample rate upgrade from 25 Ms/s to 50 MS/s
Higher trigger limit	Now up to 200.000 triggers are captured as part of the PNRF. Earlier limit was 10.000.
Technical Unit Range extended	The Technical Unit Range and Offset have been extended to: TUM: 1.0E-15 to 1.0E15 TUO:- 1.0E15 to 1.0E15
UFF58 recording loader	Added UFF58 recording loader

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1.5 Improvements

ePower Suite	<ul style="list-style-type: none"> • Reduced CPU and network load when not using FFT displays. • New notification in rare cases, when too many traces need live updating. • Improved connection behavior against mainframe in preview mode
ePower Suite workbench backwards compatibility	Loading back a VWB where an event bit was selected as cycle source threw an exception. This selection is not supported in ePower and is now changed to an 'empty' selection. The user of such a VWB will need to make some more changes before he can reuse this VWB.
ePower Suite storage enabled of additional channels	When storage of additional channels (not used by ePower setup) was enabled and saved in a workbench, storage of these channels was not enabled anymore after loading this workbench. This is fixed.
User Table	Fixed issue where in rare conditions a UserTable setup might cause an exception.
Linearization	A few use cases lacked proper support for linearization. All around improvement leading to proper linearization in all relevant use cases.
Acquisition Control	<ul style="list-style-type: none"> • Several minor updates to improve UX. • Solved case where post-trigger time could not be entered properly. • When storage location is changed, this is now properly updated in the GUI. • 'Creating results' now always produces required behavior
Display	Fixed scenario where a zoom window would show spikes where the not-zoomed display would not.
	Fixed issue with formatting of mainframe bound disk. Fixed issue with starting Perception using a workbench file.
Configured boot	Report configured boot errors with three beeps and on the GEN4tb and GEN2tB error messages will be shown on the LCD display.

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1.6 Supported Genesis High Speed platforms:

- GEN2tB
- GEN3t
- GEN4tB
- GEN7tA
- GEN17tA
- GEN3i
- GEN3iA
- GEN7i
- GEN7iA
- BE3200

1.7 Supported QuantumX Modules:

- MX1609KB
 - MX1609TB
 - MX471B / MX471C
 - MX809B
 - CX27B as single network access point only, no setup or control of CX27B
- 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: V4.0.0.56

Patents no: 7,868,886

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