

GigaCore
ETHERNET SWITCHES

Release notes.

Version 3.1.0

Related products: GigaCore 12, 14R, 16Xt, 16RFO, 10, 26i



With this release, Luminex continues to honor its commitment to the users, even 13 years after the first GigaCore devices of this type came on to the market. Version 3.1.0 offers important and in demand new features as well as bug fixes.

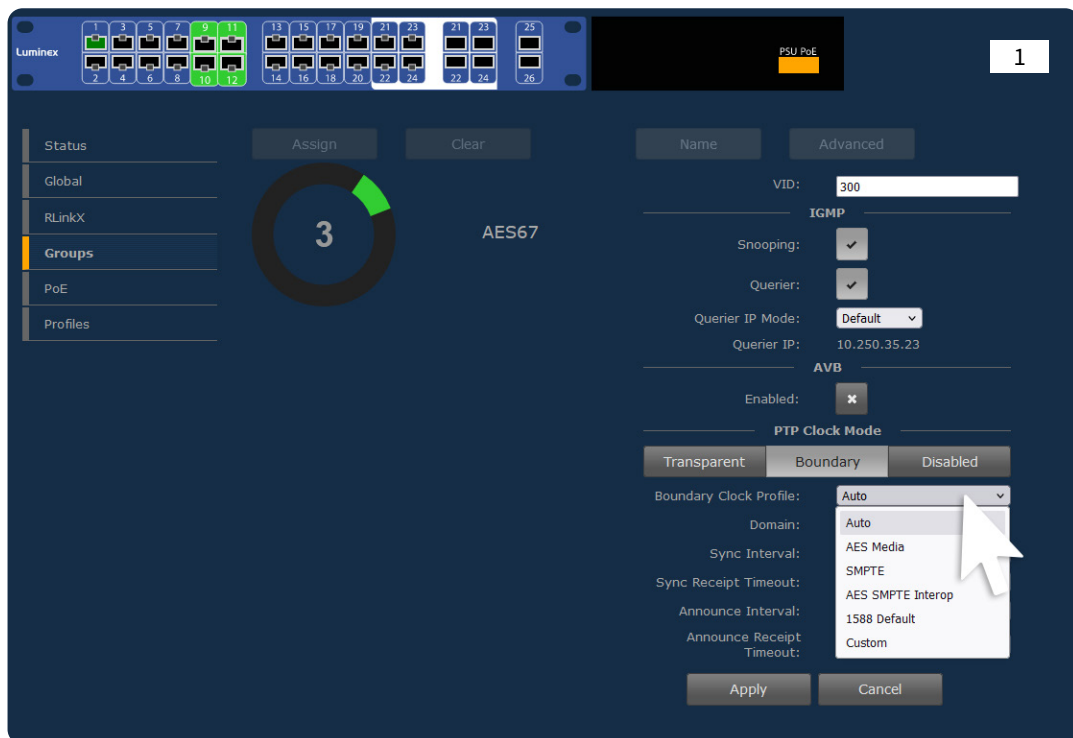
New Features

■ Boundary clock

Gigacore was already PTP aware but only in end-to-end transparent mode. Now, for each Group (VLAN) individually, GigaCore can function in Boundary clock mode, following the elected leading clock. Individual communication of each timeReceiver with the leading timeTransmitter clock is no longer needed in this scheme.

This ensures clock stability when upscaling the network. Especially when there are a large number of devices that each depend on synchronization with their timeTransmitter clock.

For ease of use, an automatic clock profile mode re-distributes the timeTransmitter clock parameters to the timeReceiver devices. For more advanced use cases, a choice of pre-defined clock profiles is available; AES67 media, SMPTE, AES SMPTE interop, 1588 default and a custom mode where the user can set all parameters as required [Fig. 1].



■ **RLinkX**

The Status indication of Luminex’s redundancy and ring network detection protocol, guaranteeing hassle-free recovery from interrupted links within milliseconds, is now improved and consistently supported on all GigaCore switches.

The improved RLinkX ring detection implementation now checks that Groups and Trunks are matching for true redundancy. Status is indicated on the front panel with the characteristic blue LED, in the WebUI and in Araneo.

LED colours indicate following status (model specific):

GigaCore 10, 26i	
Blue	Groups (VLANS) are matching and fully redundant.
Orange (only on GigaCore 10, 26i)	Partial redundancy – This may occur when a ring is detected containing a GigaCore with FW prior to version v3.1.0. Or when Groups are not matching on the ISL (Trunk) connection.
Cyan	RLinkX is enabled but no redundancy.
Off	RLinkX has been disabled.

*When at least one port indicates partial redundancy, The RLinkX status LED of the device also will be orange (GigaCore 10, 26i).

GigaCore 12,14R,16Xt,16RFO	
Blue	Groups (VLANS) are matching and fully redundant.
Blue Blinking	Partial redundancy – This may occur when a ring is detected containing a GigaCore with FW prior to version v3.1.0. Or when Groups are not matching on the ISL (Trunk) connection.
Off	RLinkX has been disabled.

Bug Fixes

- An issue was resolved where, in a setup with many talkers of the same manufacturer ID in the network, the MRPDU packet size for AVB could be exceeded. This has been solved, resulting in more stability for the end points.

