GigaCore
Ethernet Switches

GigaCore firmware Version 2.0.0 - What's new ?

- Core Engine

The team developed a completely new core for the GigaCore firmware. This new core brings support for protocol such as IEEE 1588 V2 (PTP).
IEEE 1588 (PTP) was a logical step for us, as it is part of the foundation for the support of protocols such as AES67 and AVB.

- Enhanced Recovery Time

The new GigaCore firmware scales up the performances of recovery time in case of link failure.

- Enhanced Multicast traffic management

The team improved the way the switch handle Multicast traffic, especially in a filtered environment. This result in better network performances when working with protocols such as MANet2, sACN, Dante...
Also the new switch cores now supports IGMP V3.

- New output power for the optional PoE supply

The new firmware unleashes the output power of the optional PoE supply up to 150W. This new outpout power is still shared over the 10 front ports. Right now, maximum output power per port is 15W (802.3af). The new output power is available for the first generation of PoE supply.

- Enhanced fan control

The new core brings a more accurate control of the fans, depending on the estimated environment temperature.
With the new firmware, the fans will always run at a very low rate to get a minimum forced flow (no noise).
You can also experience this enhanced fan control by blocking one of the two fans.
Once blocked, the second fan will speed up.
Below is the range of fan speed according to the estimated temperature :

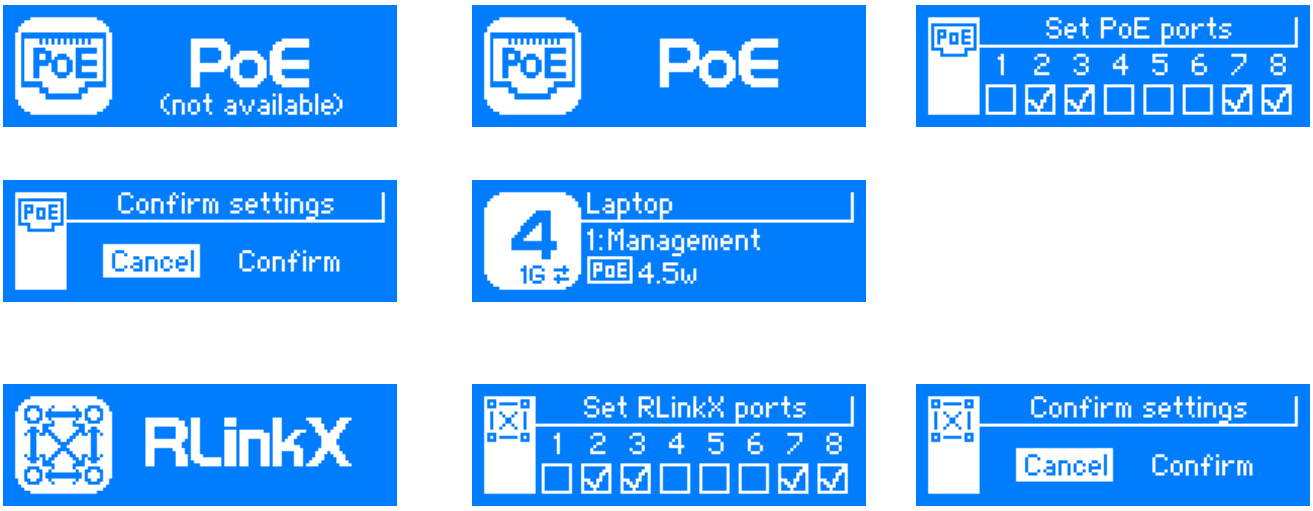
fan speeds			estimated
normal	with PoE	1 fan broken	ambient temp
30%	50%	60%	<30°C
50%	60%	80%	30-40°C
70%	70%	100%	40-50°C
80%	80%	100%	50-55°C
100%	100%	100%	>55°C

- RLinkX LED per port

The switch now enables RLinkX blue LED were redundancy is active. The Main RLinkX LED, located on the left hand side of the front panel is on, but not yet active.

- Front panel display

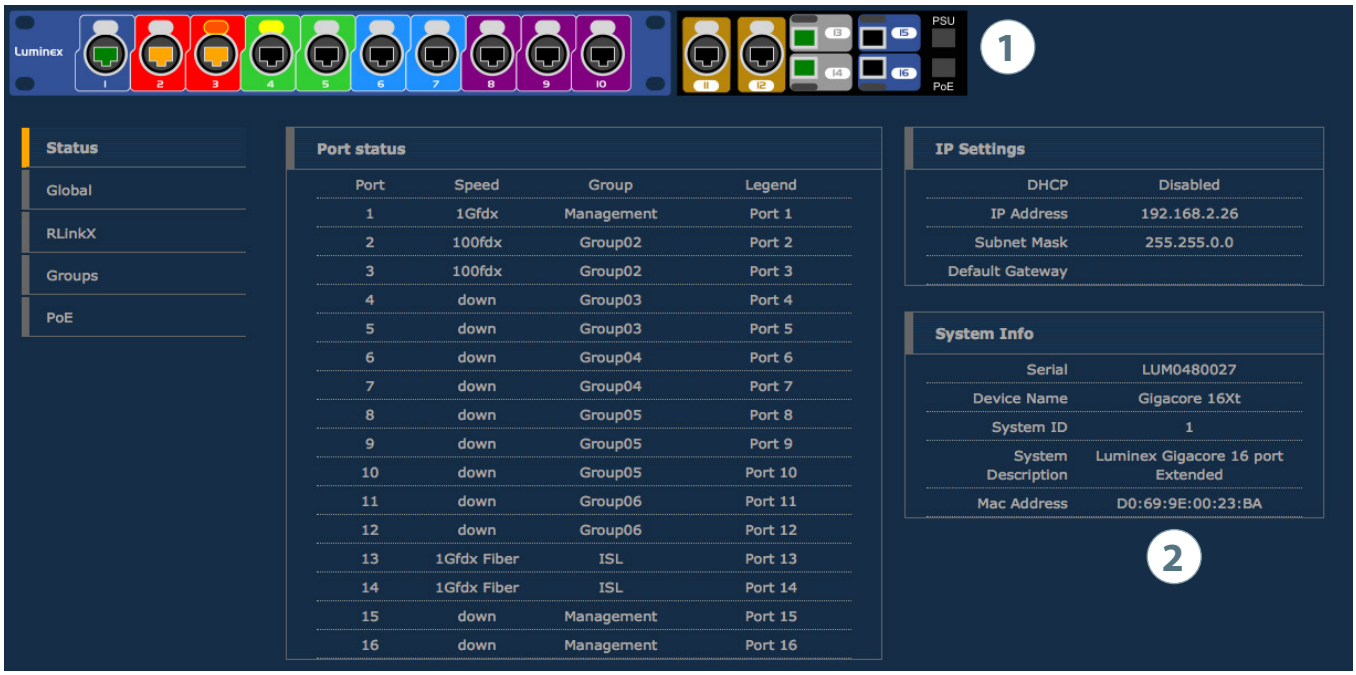
The GigaCore 16Xt and RFO now offer additional configuration menus with V2 firmware. User can now enable / disable RLinkX and PoE through the front panel display.



- Web interface

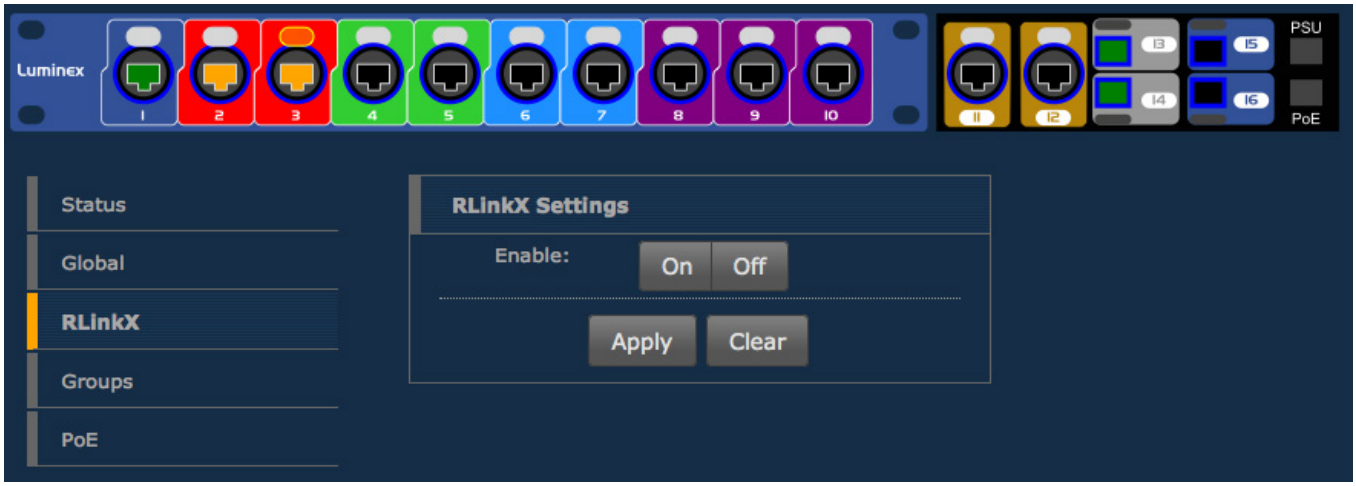
The new firmware brings also new features on the web interface. See the following screenshots to see the improvements

Status Page



1- The status page switch image now shows all group assignation at a glance, with their respective colours. PoE enabled and sourcing ports are also visible. Port group assignation colours now remain active on every page of the switch
2- The mac address of the switch is also available on the status page.
The new firmware will change the default MAC address of the switch. Contact us if you want more detail about this.

RlinkX Page



The reset button label has been replaced by a “Clear” label. This button still clears up the ports selection

Group Page

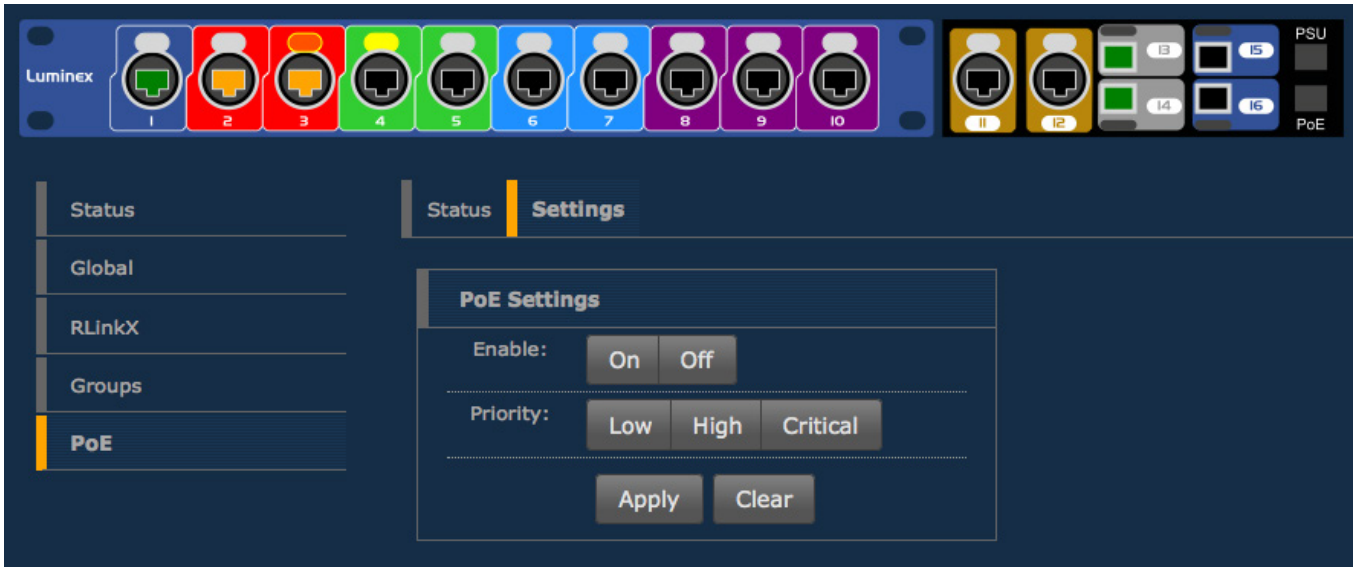
1- When user rotates the jog to select a group, the assigned ports will zoom in for a better identification. Once a port has been assigned to a group, it will immediately turn into the selected group colour. The port will keep this colour despite another group is selected. This allows a much easier identification of the port assignation.

2- The reset button label has been replaced by a “Clear” label. This button still clears up the ports selection

PoE Page - Status

As the V2 firmware now unleashes the optional PoE output power to 150W, the power level bar has been increased up to 150W.

PoE page - Settings



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