



LED Control

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Table of Contents

1. Overview	3
1.1. Supported Platforms	3
2. LED Definitions	4
2.1. Port LED Default Definition for Edgecore AS5916-54XKS	4
2.2. System LED Default Definition for Edgecore AS5916-54XKS	4
2.3. Port LED Default Definition for UfiSpace S9500-22XST	5
2.4. Port LED Default Definition for UfiSpace S9600-32X	6
2.5. Port LED Default Definition for UfiSpace S9600-72XC	6
2.6. Port LED Default Definition for Delta AGCVA48S	6

1. Overview

You can use the switch LEDs to monitor the activity and performance of a network switch or router. Using the LED control functionality, you can control the LEDs that are available in the hardware platforms supported by RBFS.

There are two types of LEDs available in the switch:

- Network Port LEDs
- System LEDs

This document focuses on the network port LEDs.

The default behavior of switch LEDs are available in this release, but because of the inaccessibility to APIs to set and customize LEDs for the platform, the following features are currently not supported:

- LED Indication of operator on an RBMS console “marking” a port for remote-hands support
- REST API for setting LED state with a timeout
- Change system LEDs color for fault state to red

1.1. Supported Platforms

Not all features are necessarily supported on each hardware platform. Refer to the *Platform Guide* for the features and the sub-features that are or are not supported by each platform.

2. LED Definitions

2.1. Port LED Default Definition for Edgecore AS5916-54XKS

The network port LEDs are used to represent the status of the link associated with the LED. In an Accton/Edgecore AS5916-54XKS switch, there are 48*10G SFP+ ports and 6*100G QSFP28 on the front panel, the all SFP/QSFP28 will operate in full duplex mode when the speed is 10Gbps or 100Gbps.

LED	Condition	Status
SFP+ Port LED	On/Flashing Green	Link at 10G, flashing indicates activity
	On/Flashing Amber	Link at 1G, flashing indicates activity
	Off	No link
QSFP28 Port LED in 100G Mode (Port 49 - 54)	On/Flashing Green	Link at 100G, flashing indicates activity
	Off	No link
QSFP28 Port LED in 25G Breakout Mode	On/Flashing Amber	Link at 25G in breakout mode, flashing indicates activity
	Off	No link
QSFP28 Port LED in 40G Mode (Port 49 - 54)	On/Flashing Blue	Link at 40G mode, flashing indicates activity
	Off	No link
QSFP28 Port LED in 10G Breakout Mode	On/Flashing Purple	Link at 10G in breakout mode, flashing indicates activity
	Off	No link

2.2. System LED Default Definition for Edgecore AS5916-54XKS

The system LEDs are used to indicate the status of power and system.

LED	Condition	Status
PS1 (Power Supply Status)	Green	Power operating normally
	Amber	Power supply present but not powered on or faulty
	Off	Power supply not present
PS2 (Power Supply Status)	Green	Power operating normally
	Amber	Power supply present but not powered on or faulty
	Off	Power supply not present
Diag (Diagnostic)	Green	System self-diagnostic test successfully completed
	Amber	System self-diagnostic test detected a fault
FAN	Green	System FAN operating normally
	Amber	Fan tray present but system FAN faulty
	Off	System off

2.3. Port LED Default Definition for UfiSpace S9500-22XST

The network port LEDs are used to show the status of the link associated with the LED. In a UfiSpace S9500-22XST switch, there are 12*10G SFP+ ports, 8*25G SFP28 ports, and 2*100G QSFP28 ports on the front panel. The SFP, SFP28, and QSFP28 ports operate in a full duplex mode when the speed is 10Gbps, 25Gbps, or 100Gbps.

LED	Condition	Status
SFP+ Port LED	On (Green)	Link is up
	Off	No link
SFP28 Port LED	On (Green)	Link is up
	Off	No link
QSFP28 Port LED	On (Green)	Link is up
	Off	No link

2.4. Port LED Default Definition for UfiSpace S9600-32X

The network port LEDs are used to show the status of the link associated with the LED. In a UfiSpace S9600-32X switch, there are 4*10G SFP+ ports and 32*100G QSFP28 ports on the front panel. The SFP+ and QSFP28 ports operate in full duplex mode when the speed is 10Gbps and 100Gbps respectively.

LED	Condition	Status
SFP+ Port LED	On (Green)	Link is up
	Off	No link
QSFP28 Port LED	On (Green)	Link is up
	Off	No link

2.5. Port LED Default Definition for UfiSpace S9600-72XC

The network port LEDs are used to show the status of the link associated with the LED. In an UfiSpace S9600-72XC switch, there are 64*25G SFP28 ports and 8*100G QSFP28 on the front panel. SFP28 and QSFP28 operate in full duplex mode when the speed is 25Gbps and 100Gbps respectively.

LED	Condition	Status
SFP28 Port LED	On (Green)	Link is up
	Off	No link
QSFP28 Port LED	On (Green)	Link is up
	Off	No link

2.6. Port LED Default Definition for Delta AGCVA48S

The network port LEDs are used to show the status of the link associated with the LED. In the Delta's AGCVA48S switch, there are 4*10G SFP+ ports and 48*25G SFP28 ports, and 10*100G QSFP28 ports on the front panel. The SFP+, SFP28, and QSFP28 ports operate in full duplex mode even when the speed is 10Gbps, 25Gbps and 100Gbps respectively.

LED	Condition	Status
SFP+ Port LED	On (Green)	Link is up
	Off	No link

LED	Condition	Status
SFP28 Port LED	On (Green)	Link is up
	Off	No link
QSFP28 Port LED	On (Green)	Link is up
	Off	No link