LED Control

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Table of Contents

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 Accton/Edgecore 5916-KXS switches.

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 behaviour 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. Port LED Default Definition for Edgecore AS5916-54XK

The network port LEDs are used to represent the status of the link associated with the LED. In an Accton/Edgecore 5916-KXS 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

LED	Condition	Status
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

1.2. System LED Default Definition for Edgecore AS5916-54XK

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 buy system FAN faulty
	Off	System off