Supported Hardware Components

This chapter contains information about the supported hardware components on the Cisco Catalyst 9800-80 Wireless Controller.

Supported EPA

The following table lists the supported EPA on the Cisco Catalyst 9800-80 Wireless Controller.

PID	Description
EPA-18X1GE	Eighteen 1GE-ports that support small form-factor pluggable (SFP) optical transceivers to provide network connectivity. Ports are numbered 0 – 17. See the **Supported SFP Transceivers** section, for supported transceivers.
EPA-10X10GE	Ten 10GE-ports that support small form-factor pluggable (SFP+) optical transceivers to provide network connectivity. Ports are numbered 0 – 9. See **Table 3: Supported SFP Transceivers**, for supported transceivers.
EPA-1X40GE	
EPA-2X40GE	
EPA-1X100GE	EPA-1X100GE uses a CPAK module to provide network connectivity. See **Table 5: Supported CPAK Interface**, for supported CPAKs.

An EPA has two types of LEDs: an A/L (Active/Link) LED for each port on the EPA, and a STATUS LED, as shown in the following figure.

Figure 1: EPA-18X1GE LEDs

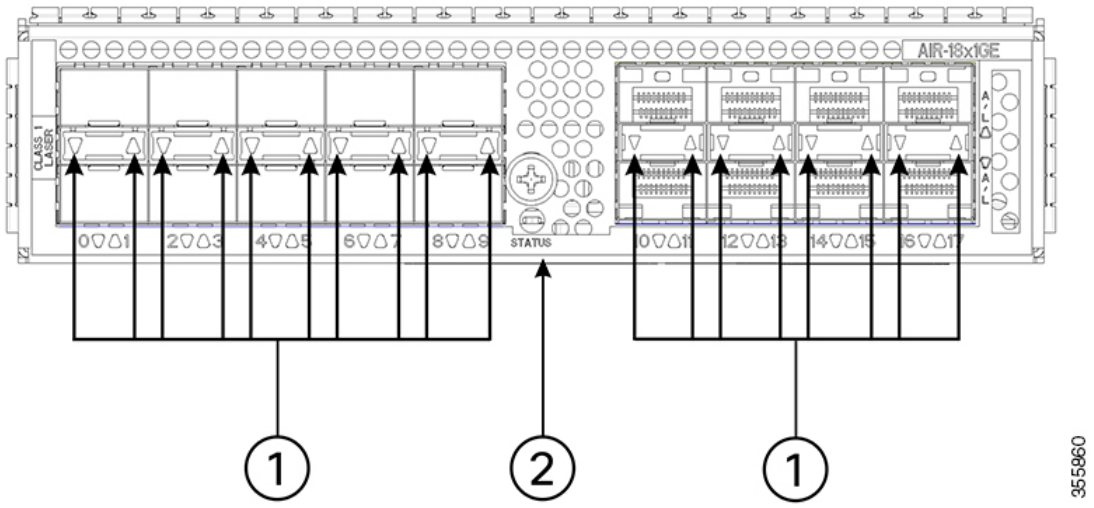
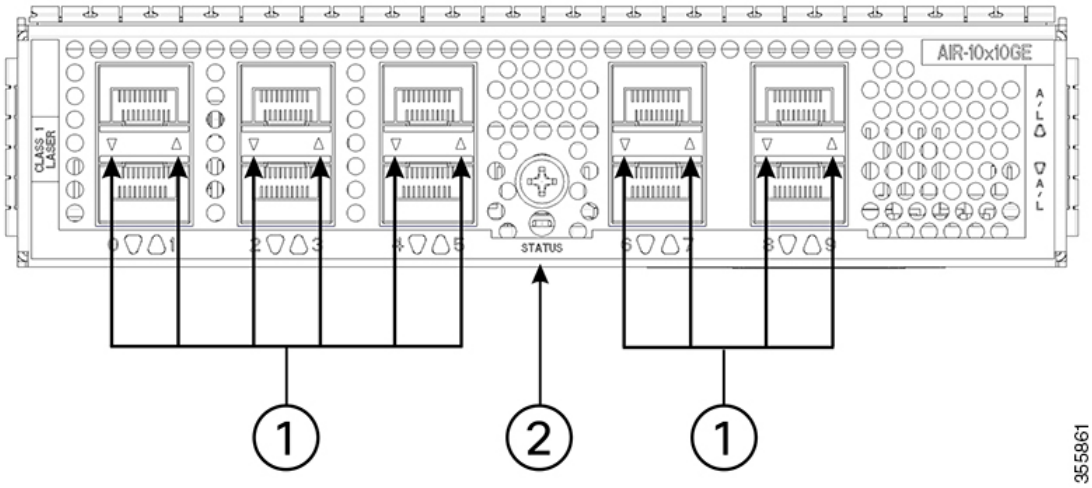


Figure 2: EPA-10X10GE LEDs



1	A/L	2	STATUS

Table 1: EPA LEDs

Function	Color or State	Description
A/L (Active/Link)	Green	Port is enabled and the link is up.
	Amber	Port is enabled and the link is down.
	Off	Port is not enabled.
Status	Green	EPA is ready and operational.
	Amber	EPA power is on and good, and the EPA is being configured.
	Off	EPA power is off.

Supported SFP Models

The following table lists the supported SFP models [40-GB and 100-GB] on the Cisco Catalyst 9800-80 Wireless Controller.

Table 2: SFP Model [40-GB]

SFP Model	Description
QSFP-40G-SR4	40-GB SFP model for SR4
QSFP-40G-LR4	40-GB SFP model for LR4
QSFP-40GE-LR4	40-GE SFP model for LR4
QSFP-40G-ER4	40-GB SFP model for ER4
QSFP-40G-SR4-S	40-GB SFP model for SR4-S
QSFP-40G-LR4-S	40-GB SFP model for LR4-S
QSFP-40G-SR-BD	40-GB SFP model for SR-BD
QSFP-40G-BD-RX	40-GB SFP model for BD-RX

Table 3: SFP Model [100-GB]

SFP Model	Description
QSFP-100G-SR4-S	100-GB SFP model for SR4-S
QSFP-100G-LR4-S	100-GB SFP model for LR4-S

Supported Transceivers

The Cisco Catalyst 9800-80 Wireless Controller supports the following small form-factor pluggable (SFP) and CPAK optical transceiver types:

Bay	Ports	Cisco Catalyst 9800-80 Wireless Controller
Bay 0	Ports TE0 – TE7 use 1GE or 10GE SFP+	SFP+
Bay 1	EPA-18X1GE— Ports 0 – 17 EPA-10X10GE— Ports 0 – 9 EPA-1X40GE— Port 0 EPA-2X40GE— Port 0 – 1 EPA-1X100GE— Port 0	SFP SFP+

Table 4: Supported SFP Transceivers

PID	Description
GLC-BX-D	1000BASE-BX SFP, 1490nm
GLC-BX-U	1000BASE-BX SFP, 1310nm
GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
GLC-TE	1000BASE-T SFP transceiver module for category 5 copper wire

Table 5: Supported SFP+ Transceiver

PID	Description
SFP-10G-SR	10GBASE-SR SFP+ Module for MMF
SFP-10G-SR-X	10GBASE-SR SFP+ Module for Extended Temp range
SFP-10G-LR	10GBASE-LR SFP+ Module for SMF
SFP-10G-LRM	10GBASE-LRM SFP+
SFP-10G-LR-X	10GBASE-LR SFP+ Module for Extended Temp range
SFP-10G-ER	10GBASE-ER SFP+ Module for SMF
SFP-10G-ZR	10GBASE-ZR SFP+

PID	Description
SFP-H10GB-ACU7M	10GBASE-CU SFP+ Cable 7 Meter, active
SFP-H10GB-ACU10M	10GBASE-CU SFP+ Cable 10 Meter, active
DWDM-SFP10G-30.33 –DWDM-SFP10G-61.41	10GBASE DWDM

Power Supplies

The Cisco Catalyst 9800-80 Wireless Controllers support AC or DC power supply options. The modular chassis configurations support the installation of two power supplies for redundancy. When an external power supply fails or is removed, the other power supply provides power requirements for the chassis. This allows you to hot-swap the power supply without impacting the functionality of the controller.

Warning **Never install an AC power module and a DC power module in the same chassis.**

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The power supplies are used in a 1 + 1 redundant configuration. There is no input switch on the faceplate of the power supplies. A power supply is switched from Standby to On by way of a system chassis power switch.

The following table lists the power supplies that you can order:

Part Number	Power Supply
C9800-AC-1100W	Cisco Catalyst 9800-80 Wireless Controller power supply module with plug-side intake airflow, AC, 1100W, 85-264V
C9800-AC-1100W=	Cisco Catalyst 9800-80 Wireless Controller power supply module with plug-side intake airflow, AC, 1100W, 85-264V, spare
C9800-DC-950W	Cisco Catalyst 9800-80 Wireless Controller power supply module with plug-side intake airflow, DC 950W
C9800-DC-950W=	Cisco Catalyst 9800-80 Wireless Controller power supply module with plug-side intake airflow, DC 950W, spare

Caution The chassis has a front-to-rear airflow. All of the power supplies and fan modules in the chassis must use the same airflow direction or an error will occur with possible overheating and shut down of the controller. If you power up the controller with more than one airflow direction, you must power down the controller and replace the modules with the wrong airflow direction before powering up the controller.

Power Supply LEDs

The following table describes the power supply LEDs.

Table 6: AC Power Supply LEDs

Power Supply Condition	Green (OK) LED Status	Amber (FAIL) LED Status
No AC power to all power supplies	OFF	OFF
Power Supply Failure (includes over voltage, over current, over temperature and fan failure)	OFF	ON
Power Supply Warning events where the power supply continues to operate (high temperature, high power and slow fan)	OFF	1Hz Blinking
AC Present/3.3VSB on (PSU OFF)	1Hz Blinking	OFF
Power Supply ON and OK	ON	OFF

Power Supply Fans

The fans in the power supply module are used for cooling the power supply module itself while system-level cooling is provided by fans within the chassis. The power supplies do not depend on the system-level fans for cooling. Fan failure is determined by fan-rotation sensors.

Note The fans in the Cisco Catalyst 9800-80 Wireless Controller power supplies have plug-side intake airflow.

Caution The chassis has a front-to-rear airflow. All of the power supplies and fan modules in the same chassis must use the same airflow direction or an error will occur with possible overheating and shut down of the controller. If you power up the controller with more than one airflow direction, you must power down the controller and replace the modules with the wrong airflow direction before powering up the controller.

Note The fans in the power supply modules will run as soon as the power supply is plugged in, even if the power switch is in the Standby position.