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Features

Cisco® Provider Connectivity Assurance Sensor Modules allow you to more effectively address end-to-end service lifecycles, from Service Activation Testing (SAT) to assurance management and service demarcation. The small form factor of the modules helps keep them power-efficient, and all management capabilities are automated and orchestrated through the Provider Connectivity Assurance Sensor Control software.

These modules are equipped with a fully featured Field-Programmable Gate Array (FPGA) capable of active Layer 2 through 4 testing and traffic generation—without compromising performance, scalability, and precision. This makes Assurance Sensor Modules an ideal fit for cost- and space-sensitive applications where performance is a key service differentiator.

Figure 1: Cisco Provider Connectivity Assurance Sensor Module 10G



The following table lists the features for the Module 10G.

Table 1: Sensor Module 10G Features

Feature	Description
Form factor	1 RU
Rack mount	Standard 19-in. (48.3 cm) or 23-in (58.42 cm) rack
Optical ports	Two fixed optical connectors

The following table lists the regulation and standard compliance features of the Module 10G.

Table 2: Regulation and Standard Compliance (Model: ANT10, ANT10h)

Feature	Description
Safety	IEC 60950-1, IEC 62368-1, EN 62368-1, CSA/UL 62368-1, AS/NZS 62368.1, J62368-1, CEI EN 62368-1, DS/EN 62368-1
EMC - Emission (Class A)	CISPR 32, EN 55032, FCC (47 CFR 15, Subpart B), ICES-003, AS/NZS CISPR 32, VCCI, KN 32, CNS 13438
EMC - Immunity	CISPR 35, EN 55035, KN 35
Telco	NEBS Level-3: GR-63, GR-1089 (DC model only)
RoHS	IEC 63000, EN IEC 63000

Package Contents

The package contents for the Sensor Module 10G include:

- Sensor Module 10G (1x)
- AC model: power cord retainer clip (1x)
- Drywall anchor kit (1x)
- Rubber feet (4x)
- L-bracket kit (1x)
- *Cisco Provider Connectivity Assurance Sensor Module 10G*—This document contains URLs that point to the hardware installation guide, regulatory compliance and safety information guide, warranty, and licensing pages, and a QR code that points to the management center Documentation Portal

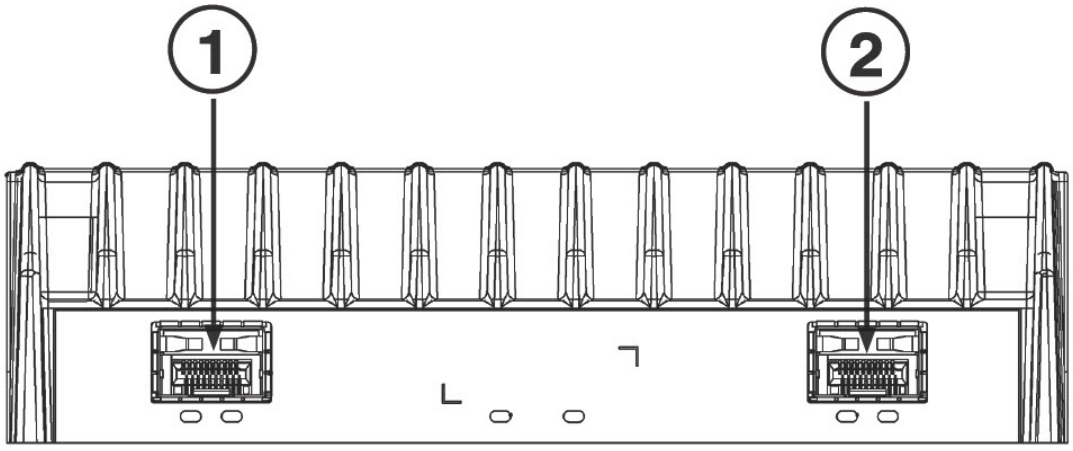
Serial Number Locations

The Serial Number (SN) and the Media Access Control (MAC) address are located at the bottom of the Sensor Module 10G.

Front Panel

The following figure shows the front panel features for the Sensor Module 10G. See Front Panel LEDs, on page 4 for a description of the LEDs.

Figure 2: Sensor Module 10G Front Panel

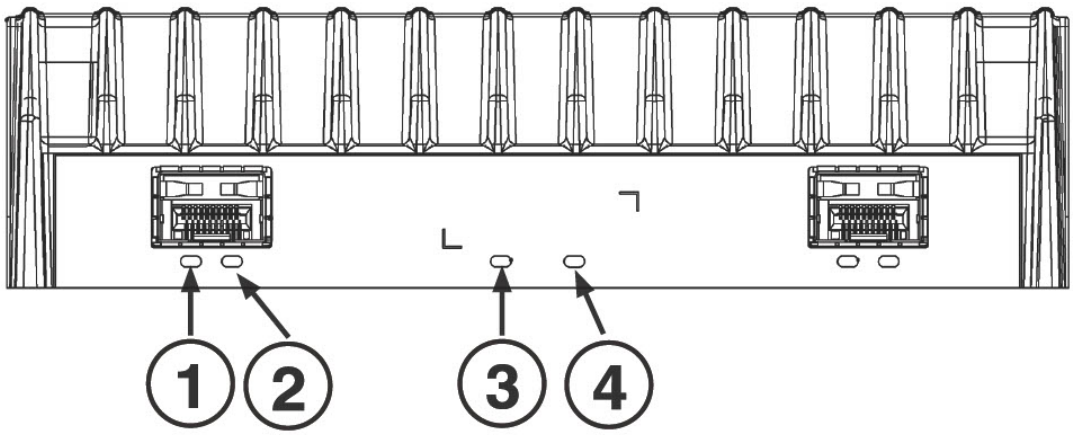


1	Optical port 1 SFP 1G/10G Ethernet port 1	**2**	Optical port 2 SFP 1G/10G Ethernet port 2

Front Panel LEDs

The following figure shows the front panel LEDs and describes their states.

Figure 3: Sensor Module 10G Front Panel LEDs

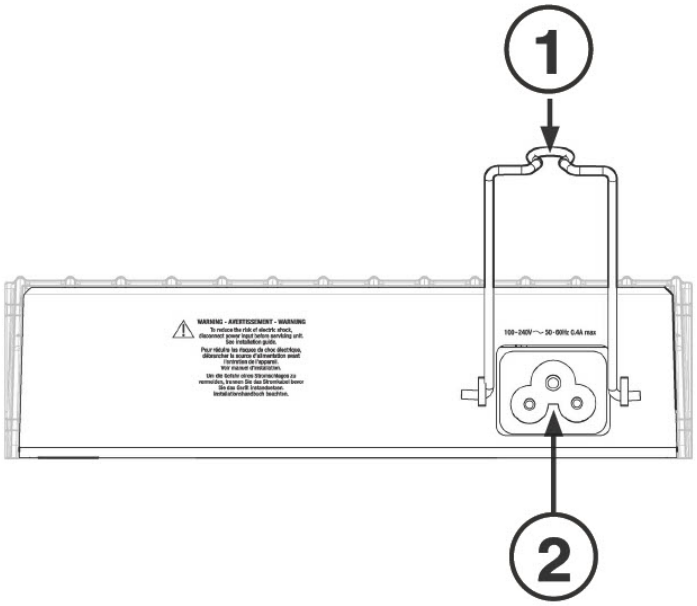


1	TX LED: • Off—Port is not transmitting data. • Flashing—Port is transmitting data.	**2**	Link/RX LED: • Off—Link is inactive. • On—Link is active. • Flashing—Port is receiving data.
3	PWR LED: • Off—Device is unpowered. • On—Device is powered.	**4**	STATUS LED: • Off—Device is not ready. • On—Device is ready, but unmanaged. • Flashing—Device is ready, and remotely managed. • Slow flashing means the system is currently managed by a remote controller. • Fast flashing means a critical system failure is detected.

Rear Panel

The following figure shows the rear panel of the Sensor Module 10G - AC Input Power Model.

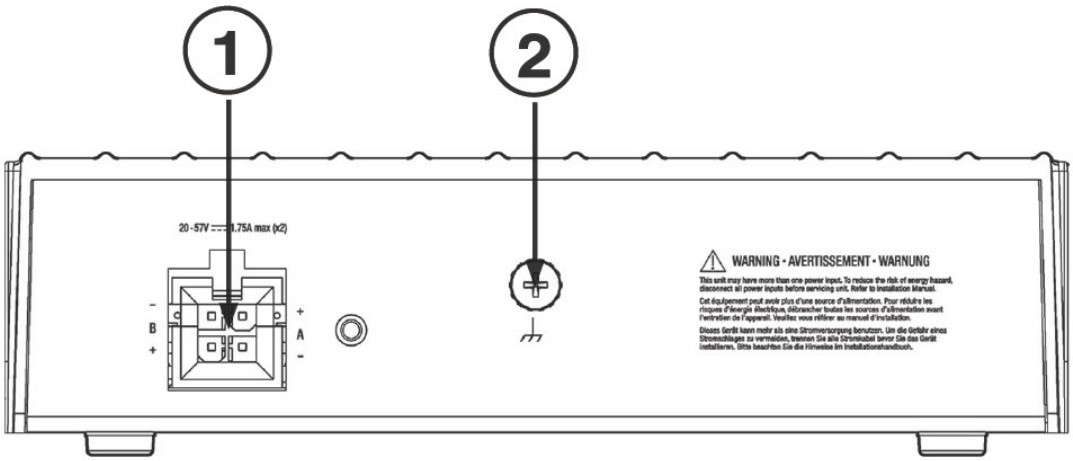
Figure 4: Sensor Module 10G Rear Panel - AC Input Power Model



1	AC cord retainer Secure the power cord through the retainer clip	**2**	AC power input Connect appropriate power cord here

The following figure shows the rear panel of the Sensor Module 10G - DC Input Power Model.

Figure 5: Sensor Module 10G Rear Panel - DC Input Power Model



1	DC power input (Feed A and B) Connect appropriate power source here **Note** The Module comes with two polarized DC feeds	**2**	Functional ground connection Fasten the ground lug here

Power Supply

The following table lists the specifications for each power supply used in the Sensor Module 10G.

Table 3: Power Specifications

Description	Specification
Input power ratings	AC: 100–240 VAC, 50–60 Hz, 0.4 A maximum DC: 20–57 VDC (polarity independent), 1.75 A maximum
Output power ratings	SFP: 2.5 W maximum per port, 4.0 W maximum for all ports **Warning** Transceivers used in the ports must stay within their specifications under all operating conditions of the system.

Description	Specification
Power consumption	18 W typical, 21 W maximum (61 BTU/hr typical, 72 BTU/hr maximum)

Hardware Specifications

The following table contains hardware specifications for the Sensor Module 10G.

Dimensions (H x W x D)	1.5 x 5.7 x 7.8 inches (3.8 x 14.5 x 19.8 cm)
Weight	3.3 lb (1.5 kg)
Temperature	Operating: • Commercial: 32 to 122°F (0 to 50°C) • Hardened*: -40 to 149°F (-40 to 65°C) *Cold Start: -13°F (-25°C) Storage: -40 to 158°F (-40 to 70°C)
Humidity	Operating: 5 to 85% RH, noncondensing Storage: 5 to 95% RH, noncondensing
Altitude	6562 ft (2000 m), above sea level

Product ID Numbers

The following table lists the field-replaceable PIDs associated with the Sensor Module 10G. If any internal components fail, you must get a return material authorization (RMA). See the Cisco Returns Portal for more information.

Table 4: Sensor Module 10G PIDs

PID	Description
SKY-MOD10G-A	Module 10G - 2xSFP+ - Single Internal AC Power Supply DHCP enabled
SKY-MOD10G-DD	Module 10G - 2xSFP+ - Dual DC Power Supply DHCP enabled
SKY-MOD10G-H-DD	Module 10G - 2xSFP+ - Dual DC Power Supply - Hardened DHCP enabled
SKY-MOD10G-H-A	Module 10G - 2xSFP+ - Single Internal AC Power Supply - Hardened DHCP enabled

Power Cord Specifications

Each AC power input requires a separate power cord. Power cords are available for connection to the Sensor Module 10G.

If you do not order the optional power cord with the system, you are responsible for selecting the appropriate power cord for the product. Using a incompatible power cord with this product may result in electrical safety hazard.

PID	Description
SKY-PC-NA	North America – C5 termination
SKY-PC-EUR	Europe – C5 termination
SKY-PC-UK	United Kingdom – C5 termination
SKY-PC-JPN	Japan – C5 termination
SKY-PC-IND	India – C5 termination
SKY-PC-SIN	Singapore – C5 termination
SKY-PC-AUS	Australia / New Zealand – C5 termination
SKY-PC-SWI	Switzerland – C5 termination
SKY-PC-ITA	Italy – C5 termination
SKY-PC-ISL	Israel – C5 termination
SKY-PC-TWN	Taiwan – C5 termination
SKY-PC-ARG	Argentina – C5 termination
SKY-PC-BRZ	Brazil – C5 termination
SKY-PC-C20	C20 – C5 termination
SKY-PC-C14	C14 – C5 termination
SKY-PC-CHN	China – C5 termination



Note Only the approved power cords for the Sensor Module 10G are supported.