Overview

Features

The Cisco Provider Connectivity Assurance Sensor GT (formerly Skylight element: GT) is a GbE platform with a feature set for high capacity MEF User Network Interface (UNI) and External Network-to-Network Interfaces (ENNI)—it supports a variety of mobile backhaul and business services applications.

It can provide centralized coverage for all locations throughout the network, providing end-to-end performance assurance and visibility with advanced functionality for aggregation and critical enterprise locations, the Cisco Provider Connectivity Assurance Sensor GT fits into MSC, co-location hand-offs and demanding 1G business customer sites, assuring QoS without impacting it in any way.

Figure 1: Cisco Provider Connectivity Assurance Sensor GT

The following table lists the features of the Cisco Provider Connectivity Assurance Sensor GT.

Table 1: Cisco Provider Connectivity Assurance Sensor GT Features

Feature	Description
Form factor	1RU
Rack mount	Standard 19-inch (48.3 cm) or 23-in (58.42 cm) rack
Airflow	Front to rear
Management port	Built-in One RJ-45 connector (10/100BASE-T)
Traffic ports	GT: two fixed SFP connectors, four fixed RJ-45 connectors GT-S: two fixed SFP connectors
Serial console port	One RJ-45 serial connector (RS-232 or two dry contacts)
Fans	Two fans for front-to-rear cooling

The following table lists the regulation and standard compliance features of the Cisco Provider Connectivity Assurance Sensor GT.

Table 2: Regulation and Standard Compliance (Model: NID4)

Feature	Description
Safety	IEC 62368-1, EN IEC 62368-1, AS/NZS 62368.1, CSA/UL 62368-1, GB 4943.1, J62368-1, SASO-IEC 62368-1

Feature	Description
EMC - Emission (Class A)	CISPR 32, IEC 61000-3-2, IEC 61000-3-3, EN 55032, EN 61000-3-2, EN 61000-3-3, FCC Part 15 (CFR 47), ICES-003, AS/NZS CISPR 32, VCCI-CISPR 32, KS C 9832
EMC - Immunity	CISPR 35, EN 55035, KS C 9835
EMC - Radio	ETSI EN 301 489-19
Telco	NEBS Level-3: GR-63, GR-1089
RoHS	IEC 63000, EN IEC 63000

Package Contents

Package contents for the Cisco Provider Connectivity Assurance Sensor GT include the following:

- Assurance Sensor GT (1)
- Rubber feet (4)
- *Cisco Provider Connectivity Assurance Sensor GT*

  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.

Note The package can contain other ordering options. See the Ordering Guide for more details.

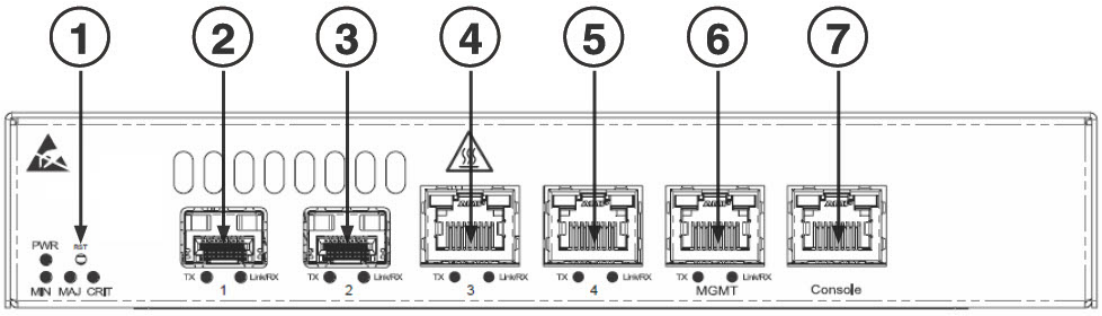
Serial Number Locations

The Serial Number (SN) and the Media Access Control (MAC) address are located at the bottom of the Cisco Provider Connectivity Assurance Sensor GT.

Front Panel

The following figure shows the front panel features of the Cisco Provider Connectivity Assurance Sensor GT. See Front Panel LEDs, on page 6 for a description of the LEDs.

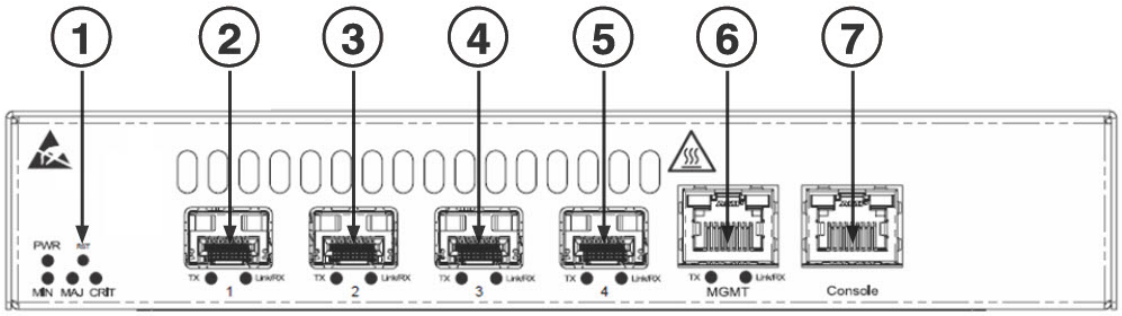
Figure 2: Font Panel - 2 SFP and 4 RJ-45 (GT)



1	RST System reset button **Note** Press the RST button for more than five seconds to reset the unit to factory defaults. **Warning** Service-affecting	**2**	Traffic port 1 SFP connector (10/100/1000BASE-X)
3	Traffic port 2 SFP connector (10/100/1000BASE-X)	**4**	Traffic port 3 RJ-45 connector (10/100/1000BASE-T)
5	Traffic port 4 RJ-45 connector (10/100/1000BASE-T)	**6**	Management port RJ-45 connector (10/100BASE-T)
7	Console / dry contacts RJ-45 connector (RS-232 or two dry contacts) See *Dry-contact Inputs* for information. **Note** Cannot be used at the same time. **Caution** The Dry Contacts Interface is strictly Safety Extra Low Voltage (SELV).		—

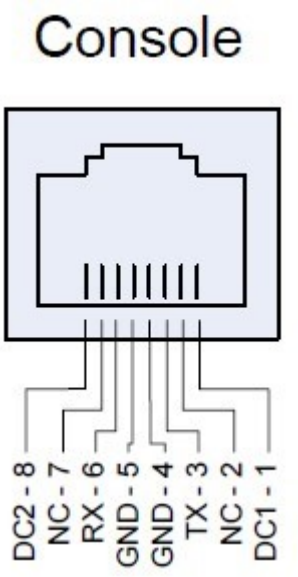
The following figure shows the front panel features of the Cisco Provider Connectivity Assurance Sensor GT-S. See Front Panel LEDs, on page 6 for a description of the LEDs.

Figure 3: Font Panel - 4 SFP and 2 RJ-45 (GT-S)



1	RST System reset button **Note** Press the RST button for more than five seconds to reset the unit to factory defaults. **Warning** Service-affecting	**2**	Traffic port 1 SFP connector (10/100/1000BASE-X)
3	Traffic port 2 SFP connector (10/100/1000BASE-X)	**4**	Traffic port 3 SFP connector (10/100/1000BASE-X)
5	Traffic port 4 SFP connector (10/100/1000BASE-X)	**6**	Management port RJ-45 connector (10/100BASE-T)
7	Console / dry contacts RJ-45 connector (RS-232 or two dry contacts) See *Dry-contact Inputs* for information. **Note** Cannot be used at the same time. **Caution** The Dry Contacts Interface is strictly Safety Extra Low Voltage (SELV).		—

Figure 4: Dry-contact Inputs

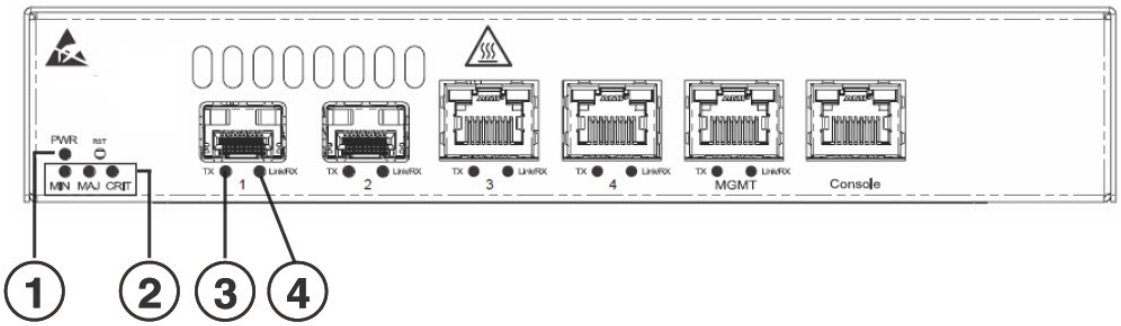


1	Dry contact 1	**2**	Not connected
3	TX data	**4**	Ground
5	Ground	**6**	RX data
7	Not connected	**8**	Dry contact 2

Front Panel LEDs

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

Figure 5: Front Panel LEDs and Their States



1	PWR LED • Off—The device is unpowered. • Green—The device is powered.	**2**	MIN MAJ CRIT LEDs • MIN Yellow—A minor alarm condition is present. • MAJ Red—A major alarm condition is present. • CRIT Red—A critical alarm condition is present.
3	TX LED • Off—The port is not transmitting data. • Green, flashing—The port is transmitting data.	**4**	Link/RX LED • Off—The link is inactive. • Green—The link is active. • Green, flashing—The port is receiving data.

Rear Panel

The Cisco Provider Connectivity Assurance Sensor GT can be ordered in these rear panel configurations:

- Single AC Power
- Dual AC Power
- DC Power

The following figure shows the rear panel of the Cisco Provider Connectivity Assurance Sensor GT.

Figure 6: Single AC Power

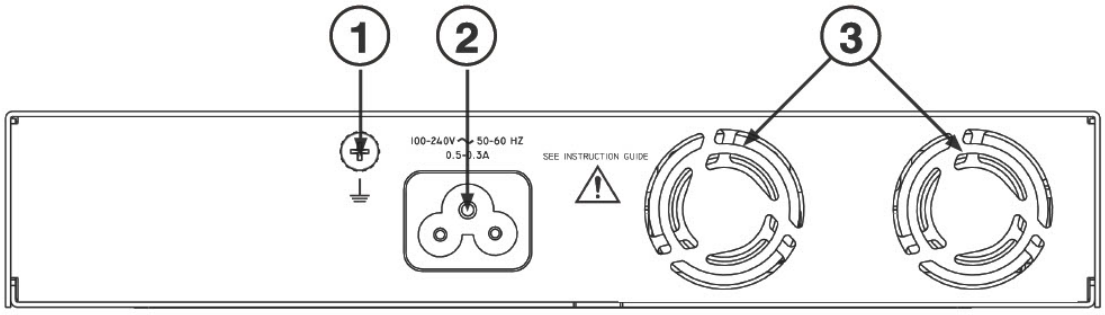


Figure 7: Dual AC Power

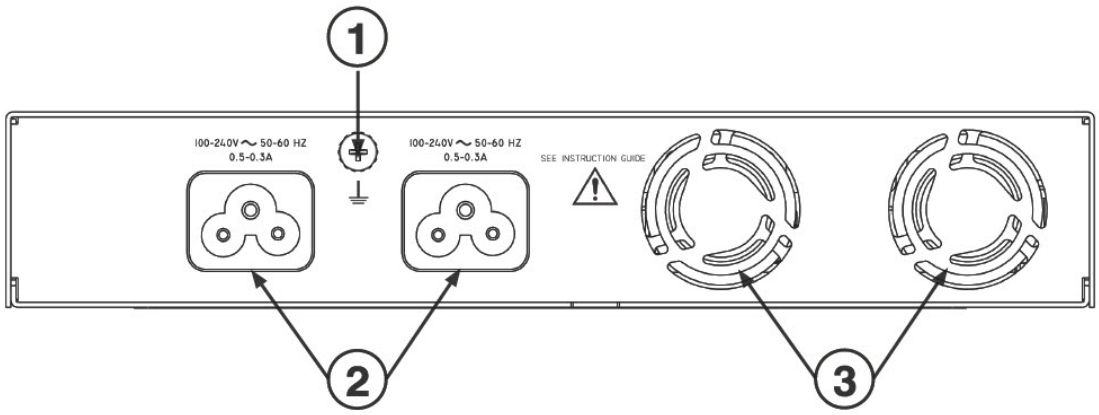
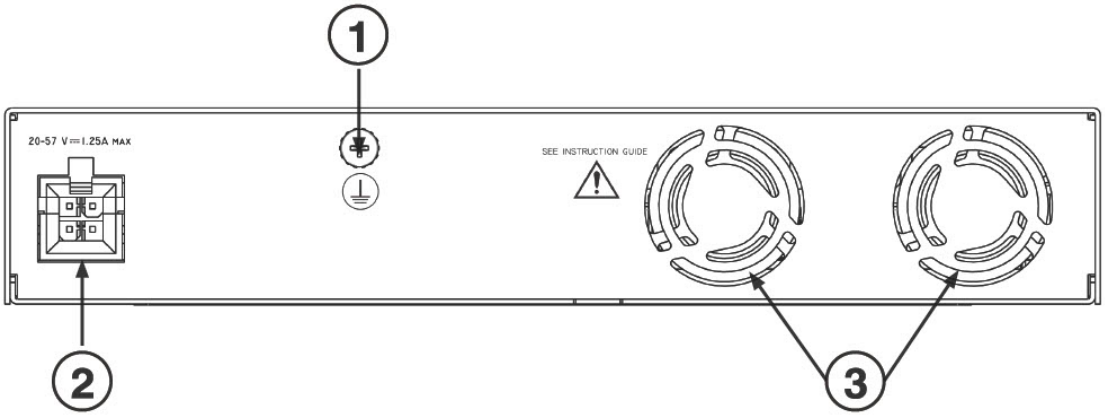


Figure 8: DC Power



1	Ground lug Unit protective or functional ground point	**2**	Power input(s) AC (single or dual) or DC (dual feeds)
3	System fans Airflow outtake		—

Power Supply

The following table lists the specifications for each power supply used in the Cisco Provider Connectivity Assurance Sensor GT.

Table 3: Power Supply Specifications

Description	Specification
Input power ratings	AC: 100 to 240 V AC, 50 to 60 Hz, 0.5 to 0.3 A_{Max} DC: 20 to 57 V DC, 1.25 A_{Max}
Output power ratings	SFP: 1.5 W_{Max} per port, up to 5 $W_{(Max)}$ total for all the ports
Power consumption	22 W_{Max} (75 BTU/hr_{Max})

Hardware Specifications

The following table contains hardware specifications for the Cisco Provider Connectivity Assurance Sensor GT.

Dimensions (H x W x D)	1.5 x 7.9 x 6.8 inches (3.8 x 20.0 x 17.2 cm)
Weight	3 lb (1.35 kg)
Temperature	Operating: • Commercial: 32 to 122°F (0 to 50°C) • Hardened: -40 to 149°F (-40 to 65°C) Storage: -40 to 158°F (-40 to 70°C)
Humidity	Operating: 5 to 85% RH, noncondensing Storage: 5 to 95% RH, noncondensing
Altitude	Maximum: 6600 ft (2000 m), above sea level

Product ID Numbers

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

Table 4: Cisco Provider Connectivity Assurance Sensor GT PIDs

PID	Description
SKY-GT-A	2xRJ-45 + 2xSFP - Single Internal AC Power Supply
SKY-GT-AA	2xRJ-45 + 2xSFP - Dual Internal AC Power Supply
SKY-GT-H-DD	2xRJ-45 + 2xSFP - Dual DC Power Supply - Hardened

PID	Description
SKY-GTS-A	4xSFP - Single Internal AC Power Supply
SKY-GTS-AA	4xSFP - Dual Internal AC Power Supply
SKY-GTS-H-DD	4xSFP - Dual DC Power Supply - Hardened

Power Cord Specifications

Each AC power input requires a separate power cord. Power cords are available for connection to the Cisco Provider Connectivity Assurance Sensor GT.

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 Zeland – 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 Cisco Provider Connectivity Assurance Sensor GT are supported.