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Features

The Cisco® Provider Connectivity Assurance Sensor LT-S is a dense, multiport, 1/10 Gigabit Ethernet platform with ultra-low-latency packet forwarding and jitter. Designed for high-availability applications requiring MEF-type service assurance, the Assurance Sensor LT-S is optimized for scalable service delivery and high-precision performance monitoring. It is an ideal edge, aggregation, or external network-to-network interface (ENNI) unit for demanding wireless backhaul, SLA-backed business services, Ethernet wholesale, and dark fiber termination applications. Switch-free aggregation offers near-zero-latency multiservices for multitenant and multioperator endpoints.

The LT-S provides all the tools to establish, validate, and monitor Layer 2 and Layer 3 services in a single unit. It is a flexible, scalable alternative to switches and routers when delivering resilient services over optical linear or G.8032 ring topologies. Zero-touch provisioning and IPv4/IPv6 management make the LT-S easy to deploy, manage, and secure.

Fully integrated with the Cisco Provider Connectivity Assurance platform, the LT-S supports service delivery automation, scalable metrics collection, and reporting—along with actionable insights delivery and machine learning for accelerated service rollout and improved operational efficiencies.

The LT-S interoperates with other Provider Connectivity Assurance Sensors to deliver a scalable end-to-end and core-to-edge performance-assured networking solution tailored to your applications.

Figure 1: Cisco Provider Connectivity Assurance Sensor LT-S



The following table lists the features of the Assurance Sensor LT-S.

Table 1: Cisco Provider Connectivity Assurance Sensor LT-S Features

Feature	Description
Form factor	1RU
Rack mount	Standard 19-inch (48.3 cm) or 23-inch (58.42 cm) rack
Airflow	Front to rear
Management port	Built-in One RJ-45 connector (10M/100M/1GbE)
Traffic ports	Four SFP connectors (10M/100M/1GbE) Four SFP+ connectors (1G/10GbE) Four SFP/RJ-45 connectors (10M/100M/1GbE combo ports)
Console port	One RJ-45 connector (RS-232)
Dry contact inputs	One RJ-45 connector (four dry contacts)
Fans	Two fans for front-to-rear cooling

The following table lists the regulation and standard compliance features of the Assurance Sensor LT-S.

Table 2: Regulation and Standard Compliance (Model: NODE2)

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
EMC - Emission (Class A)	CISPR 32, EN 55032, FCC Part 15 (CFR 47), ICES-003, AS/NZS CISPR 32
EMC - Immunity	EN 55035
Telco	NEBS Level-3: GR-63, GR-1089

Feature	Description
Enviro	RoHS: IEC 63000, EN IEC 63000

Package Contents

Package contents for the Cisco Provider Connectivity Assurance Sensor LT-S include the following:

- Assurance Sensor LT-S (1)
- Rack-mount kit: brackets (2), screws #10-32 3/8″ (4), screws #8-32 1/4″ (8)
- Power kit DC connectors (2)
- *Cisco Provider Connectivity Assurance Sensor LT-S*

  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.

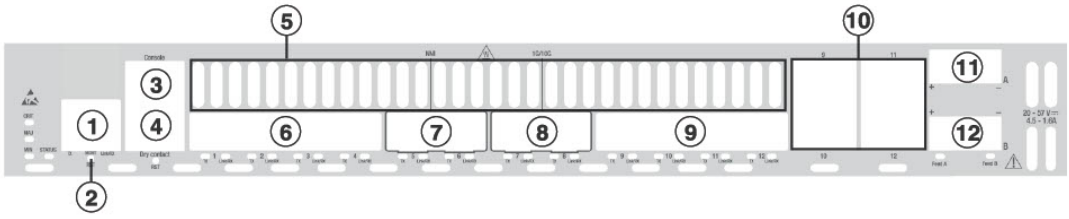
Serial Number Locations

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

Front Panel

The following figure shows the front panel features of the Assurance Sensor LT-S. See Front Panel LEDs, on page 4 for a description of the LEDs.

Figure 2: Font Panel

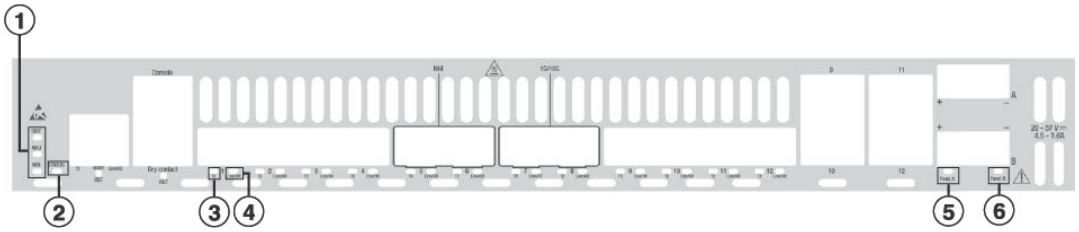


1	Management port One RJ-45 connector (10M/100M/1GbE)	**2**	RST System reset button **Note** Press the RST button for more than five seconds to reset the unit to factory defaults.
3	Console port One RJ-45 connector (RS-232) • Pin #1—Not connected • Pin #2—Not connected • Pin #3—RS-232 TX data • Pin #4—Ground • Pin #5—Ground • Pin #6—RS-232 RX data • Pin #7—Not connected • Pin #8—Not connected	**4**	Dry contact inputs One RJ-45 connector (four dry contacts) **Caution** The Dry Contacts Interface is strictly Safety Extra Low Voltage (SELV). • Pin #1—Ground 1 • Pin #2—Dry contact 1 • Pin #3—Ground 3 • Pin #4—Dry contact 2 • Pin #5—Ground 2 • Pin #6—Dry contact 3 • Pin #7—Ground 4 • Pin #8—Dry contact 4
5	System ventilation holes Fresh air intake	**6**	Traffic ports 1-4 Four SFP connectors (10M/100M/1GbE)
7	Traffic ports 5-6 Two SFP+ connectors (1G/10GbE)	**8**	Traffic ports 7-8 Two SFP+ connectors (1G/10GbE)
9	Traffic ports 9-12 Four SFP connectors (10M/100M/1GbE combo ports)	**10**	Traffic ports 9-12 Four RJ-45 connectors (10M/100M/1GbE combo ports)
11	Power input (feed A) One DC input connector: Wurth, 691332510004	**12**	Power input (feed B) One DC input connector: Wurth, 691332510004

Front Panel LEDs

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

Figure 3: Front Panel LEDs and Their States

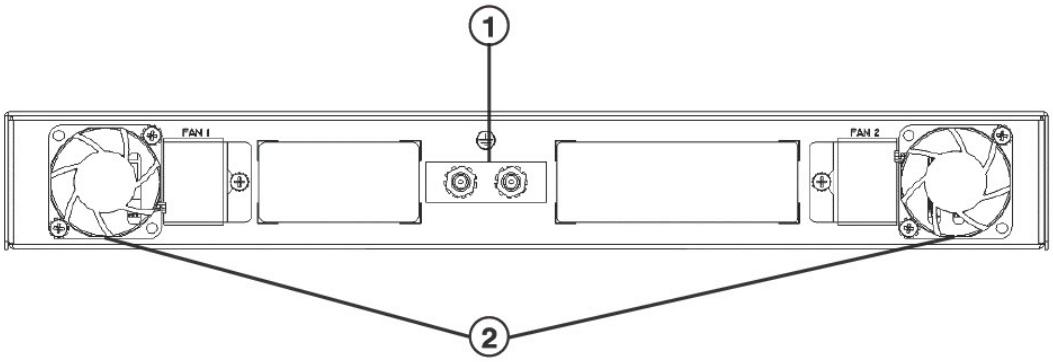


1	MIN MAJ CRIT LEDs • MIN Yellow—A minor alarm condition is present. • MAJ Red—A major alarm condition is present. • CRIT Red—A critical alarm condition is present.	**2**	STATUS LED • Green—Normal operation. • Green, flashing—The unit is booting up.
3	TX LED • Off—The port is not transmitting data. • 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.
5	Feed A power LED • Off—Power is not applied to the unit's feed A. • Green—Power is applied to the unit's feed A.	**6**	Feed B power LED • Off—Power is not applied to the unit's feed B. • Green—Power is applied to the unit's feed B.

Rear Panel

The following figure shows the rear panel of the Assurance Sensor LT-S.

Figure 4: Rear Panel



1	Ground lug Unit protective ground point (lug type: 2x stud #10 hole, 16 mm spacing)	**2**	Hot-swappable fans Hot air outtake

Power Supply

The following table lists the specifications for each power supply used in the Assurance Sensor LT-S

Table 3: Power Specifications

Description	Specification
Input power rating	20–57 VDC (polarity independent), 4.5–1.6 A maximum
Output power ratings	SFP+: 2.5 W maximum per port SFP: 1.2 W maximum per port **Caution** Transceivers used in the ports must stay within their specifications under all operating conditions of the system.
Power consumption	90 W maximum (307 BTU/hr maximum)

Hardware Specifications

The following table contains hardware specifications for the Assurance Sensor LT-S.

Dimensions (H x W x D)	1.75 x 13 x 8.9 inches (4.5 x 33 x 22.6 cm)

Weight	6 lb (2.7 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 LT-S. If any internal components fail, you must get a return material authorization (RMA). See the Cisco Returns Portal for more information.

Table 4: Assurance Sensor LT-S PIDs

PID	Description
SKY-LTS-DD	Cisco Provider Connectivity Assurance Sensor LT-S - 4xSFP, 4xSFP+, 4xSFP/RJ-45 (combo) - Dual DC power supply - Commercial temperature
SKY-LTS-H-DD	Cisco Provider Connectivity Assurance Sensor LT-S - 4xSFP, 4xSFP+, 4xSFP/RJ-45 (combo) - Dual DC power supply - Hardened