

Overview

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Features

The Cisco® Provider Connectivity Assurance Sensor LX-S is a compact, 1 and 10 Gigabit Ethernet (1/10GE) platform with ultra-low-latency packet forwarding and jitter. Designed for high-availability applications requiring MEF-type service assurance, the Assurance Sensor LX-S is optimized for scalable service delivery and performance monitoring. Its design is ideal for deployment in space-constrained environments for mobile backhaul and business Ethernet applications.

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

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

Figure 1: Assurance Sensor LX-S



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

Table 1: Assurance Sensor LX-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 ports	Built-in One RJ-45 connector (10M/100M/1GbE)
Traffic ports	Four SFP+ connectors (1G/10GbE)
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 LX-S.

Table 2: Regulation and Standard Compliance (Model: NODE2c)

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 47 CFR Part 15 Subpart B, ICES-003, AS/NZS CISPR 32, VCCI-CISPR 32, KN32

Feature	Description
EMC - Immunity	EN 55035, KN35
Telco	NEBS Level-3: GR-63, GR-1089
Enviro	RoHS: IEC 63000, EN IEC 63000

Package Contents

Package contents for the Assurance Sensor LX-S include the following:

- Assurance Sensor LX-S (1)
- Rubber feet (4)
- *Cisco Provider Connectivity Assurance Sensor LX-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.

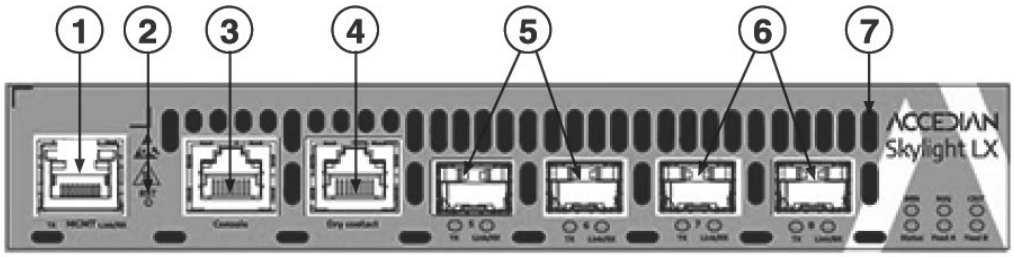
Serial Number Locations

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

Front Panel

The following figure shows the front panel features of the Assurance Sensor LX-S. See Front Panel LEDs, on page 5 for a description of the LEDs.

Figure 2: Font Panel

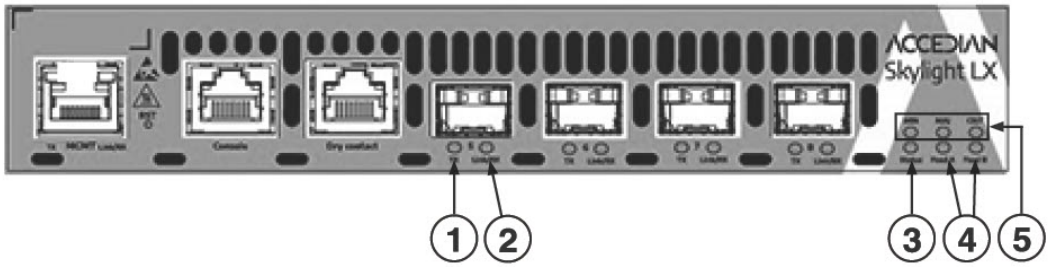


1	Management port One RJ-45 connector (10M/100M/1GbE)	**2**	RST System reset button **Note** Press the RST button for more than five seconds to reset the unit to factory defaults.
3	Console port One RJ-45 connector (RS-232)	**4**	Dry contact inputs One RJ-45 connector (four dry contacts) **Caution** 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	Traffic ports 5-6 Two SFP+ connectors (1G/10GbE)	**6**	Traffic ports 7-8 Two SFP+ connectors (1G/10GbE)
7	System ventilation holes Fresh air intake		—

Front Panel LEDs

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

Figure 3: Front Panel LEDs and Their States

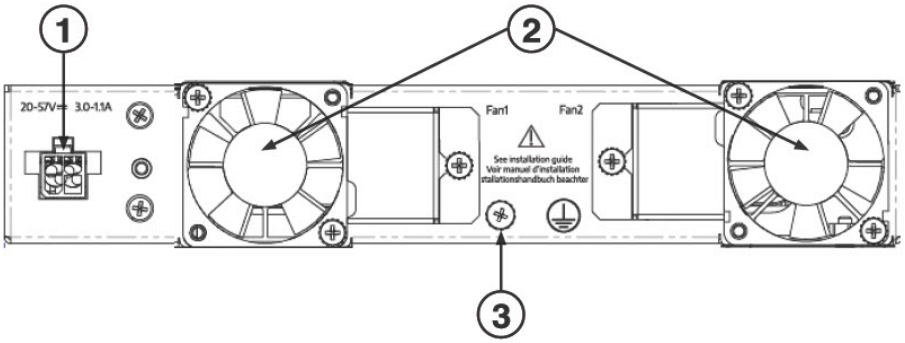


1	TX LED • Off—The port is not transmitting data. • Green, flashing—The port is transmitting data.	**2**	Link/RX LED • Off—The link is inactive. • Green—The link is active. • Green, flashing—The port is receiving data.
3	STATUS LED • Green—Normal operation. • Green, flashing—The unit is booting up.	**4**	PWR LED (feed A/B) • Off—The device is unpowered. • Green—The device is powered.
5	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.		—

Rear Panel

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

Figure 4: Rear Panel



1	DC power input 1x DC connector: Molex, 43810-0001	**2**	Hot-swappable fans Hot air outtake
3	Ground lug Protective ground point (lug type: 1x screw #6)		—

Power Supply

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

Table 3: Power Specifications

Description	Specification
Input power ratings	20–57 VDC (polarity independent), 3.0–1.1 A maximum
Output power ratings	SFP+: 2.5 W maximum per port SFP: 2.0 W maximum per port
Power consumption	40 W nominal, 55 W maximum (136 BTU/hr nominal, 188 BTU/hr maximum)

Hardware Specifications

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

Dimensions (H x W x D)	7.9 x 1.5 x 10.4 inches (20.1 x 3.8 x 26.4 cm)
Weight	3.7 lb (1.7 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 Assurance Sensor LX-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 LX-S PIDs

PID	Description
SKY-LXS-H-DD	4xSFP+ - Dual DC Power Supply - Hardened
SKY-LXS-Y-DD	4xSFP+ - SyncE - Dual DC Power Supply
SKY-LXS-DD	4xSFP+ - Dual DC Power Supply
SKY-LXS-YH-DD	4xSFP+ - SyncE - Dual DC Power Supply - Hardened