Cisco Provider Connectivity Assurance Sensor LT-S

Formerly Accedian Skylight LT-S Performance Element

Contents

Easily establish, validate, and monitor network performance with scalable, integrated hardware.

Product overview

The Cisco® Provider Connectivity Assurance Sensor LT-S (formerly Accedian Skylight LT-S Performance Element) 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.

Features and benefits

Table 1. Features and benefits

Feature	Benefit
Y.1564/RFC2544 Service Activation Testing (SAT)	Helps measure services to ensure that they were activated and are performing as expected
Wire-speed, MEF-certified Carrier Ethernet service delivery	Delivers reliable network service across applications
Precise, scalable Layer 2 service Operations, Administration, and Maintenance (OAM), including Y.1731 and performance assurance agent	Assists in the installation, monitoring, and troubleshooting of Ethernet networks
Precise, scalable Layer 3 Two-Way Active Measurement Protocol (TWAMP)	Measures network performance between two endpoints and provides Quality-of-Service (QoS) analysis
MEF 10.3 hierarchical QoS enforcement	Prioritizes network traffic and gives highest bandwidth to most critical operations
Programmable, patented Field- Programmable Gate Array (FPGA)	Offers flexibility for teams to configure network hardware according to their unique needs

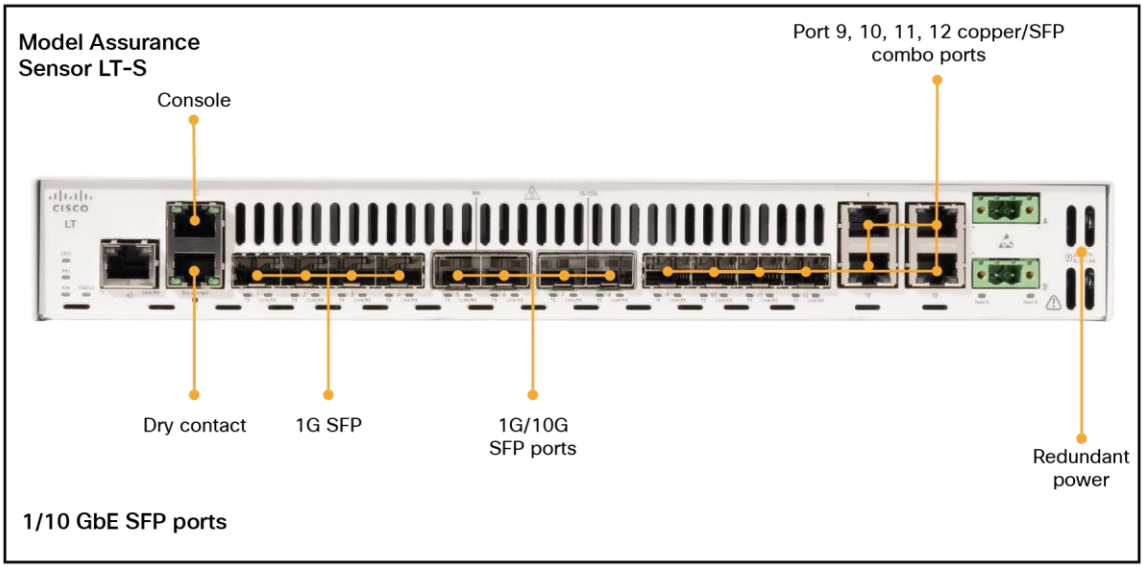

Figure 1.
Provider Connectivity Assurance Sensor LT-S

Product specifications

Table 2. Product specifications

Power and connectivity	
Supply/voltage	Dual (A/B) 20 to 57 VDC, 4.5 to 1.6A max
Power consumption	<90 watts
Heat generation	<310 BTU per hour
Maximum SFP socket power consumption	1.2W per socket, commercial-grade SFP (70°C, 158°F) at 50°C (122°F) ambient temperature 1.2W per socket, industrial-grade SFP (85°C, 185°F) at 65°C (149°F) ambient temperature
Maximum SFP+ socket power consumption	2x 2.5W and 2x 1.5W per socket, commercial-grade SFP+ (70°C, 158°F) at 50°C (122°F) ambient temperature 2x 2.5W and 2x 1.5W per socket, industrial-grade SFP+ (85°C, 185°F) at 65°C (149°F) ambient temperature
Physical	
Dimensions (H x W x D)	1.75 x 13.0 x 8.9 in. (45 x 330 x 225 mm)
Weight	2.7 kg (6.0 lb)
Environmental	
Standard operating temperature	Standard: 0° to 50°C (32° to 122°F) When powered with the external AC/DC power supply: 0° to 40°C (32° to 104°F)

Power and connectivity	
Hardened operating temperature (at sea level)	-40° to +65°C (-40° to +149°F)
Storage temperature	-40°C to +70°C (-40° to +158°F)
Maximum altitude	2000 meters (6562 ft) above sea level
Operating/storage humidity	5% to 95% RH, noncondensing

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	CISPR 35, EN 55035
Telco	NEBS Level-3: GR-63, GR-1089
Environmental	RoHS; IEC 63000, EN IEC 63000; WEEE
Mean Time Between Failures (MTBF) > 72 yrs at 25°C per Telcordia SR-332 method MTBF > 39.5 yrs	

Table 3. Assurance Sensor LT-S models

Model	10GE SFP+ NNI interfaces	1GE SFP UNI interfaces	1/10GE SFP/SFP+ interfaces	1GE copper/ SFP combo UNI ports	Temperature hardened	Cisco PID
LT-S	2	4	2	4		SKY-LTS-DD
LT-SH	2	4	2	4	•	SKY-LTS-H-DD

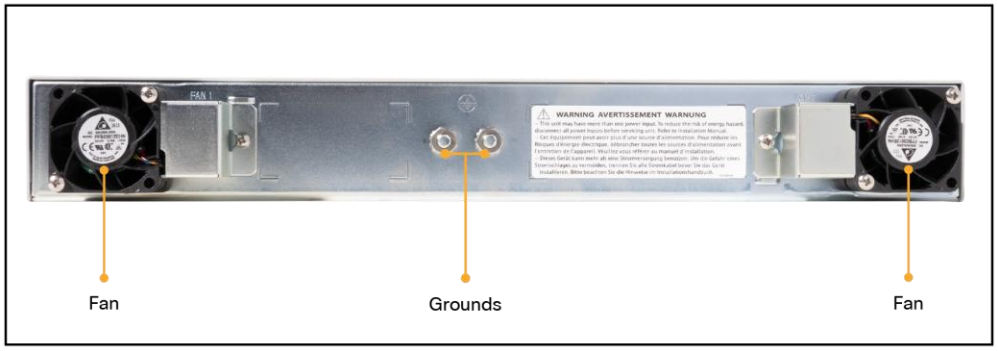

Figure 2.
Back view of Provider Connectivity Assurance Sensor LT-S

Power options and accessories

Choose between 19- and 23-inch rack-mount and wall-mount options, as well as AC power options.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environmental Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environmental Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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For more information

For more information on the Cisco Provider Connectivity Assurance platform, please visit cisco.com.

For technical documentation, visit the Cisco Provider Connectivity Assurance Documentation site.

Document history

New or revised topic	Described in	Date
Updated Assurance Sensor LT-S models	Table 3	November 7, 2024

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