

Cisco Provider Connectivity Assurance Sensor LT-S

Formerly Accedian Skylight LT-S
Performance Element

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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

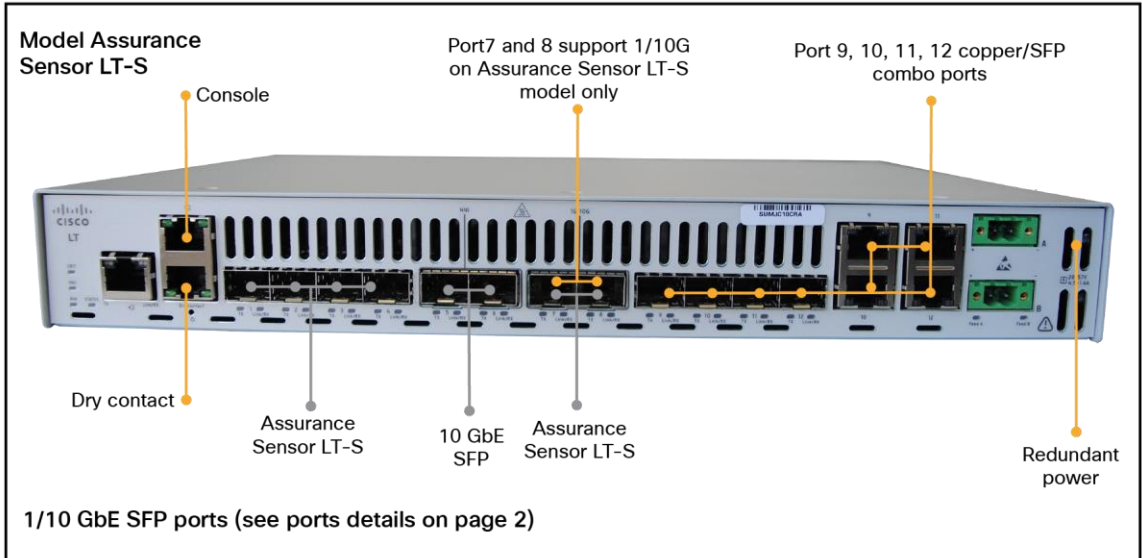


Figure 1. Provider Connectivity Assurance Sensor LT-S

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

Regulatory and certification

Certification safety model name (unique identifier) – NODE2
 IEC 60950-1/UL 60950-1/CSA C.22.2 No 60950-1
 FCC Part 15 Class A, ICES-003
 CE marking and RoHS compliant, WEEE compliant
 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	GPS	SyncE	Cisco PID
LT-S	2	4	2	4				LTS-DD
LT-SH	2	4	2	4	•			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

Reference links to product-specific environmental sustainability information that is mentioned in relevant sections of this data sheet are provided in the following tables:

Sustainability topic	Reference
General	
Product compliance	Table 6. Safety and compliance information
Power	
Power supply	Table 2. Product specifications: power supplies, typical and maximum power specification
Material	
Unit weight, dimensions, and mean time between failures metrics	Table 2. Product specifications

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.

Cisco Services

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing the Cisco Provider Connectivity Assurance platform on your network. The innovative Cisco Services offerings are delivered through a unique combination of people, processes, tools, and partners and are focused on helping you increase operating efficiency and improve your data center network. Cisco Advanced Services uses an architecture-led approach to help you align your data center infrastructure with your business goals and achieve long-term value. Cisco Smart Net Total Care® Service helps you resolve mission-critical problems with direct access at any time to Cisco network experts and award-winning resources.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

For more information

For more information on the Cisco Provider Connectivity Assurance platform, please visit [cisco.com](https://www.cisco.com).

For technical documentation, visit the [Cisco Provider Connectivity Assurance Documentation site](#).

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