Cisco LX-S

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Enjoy comprehensive network performance monitoring in a compact, efficient hardware platform.

Product overview

The Cisco® 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 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 Cisco Crosswork Assurance, 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.

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

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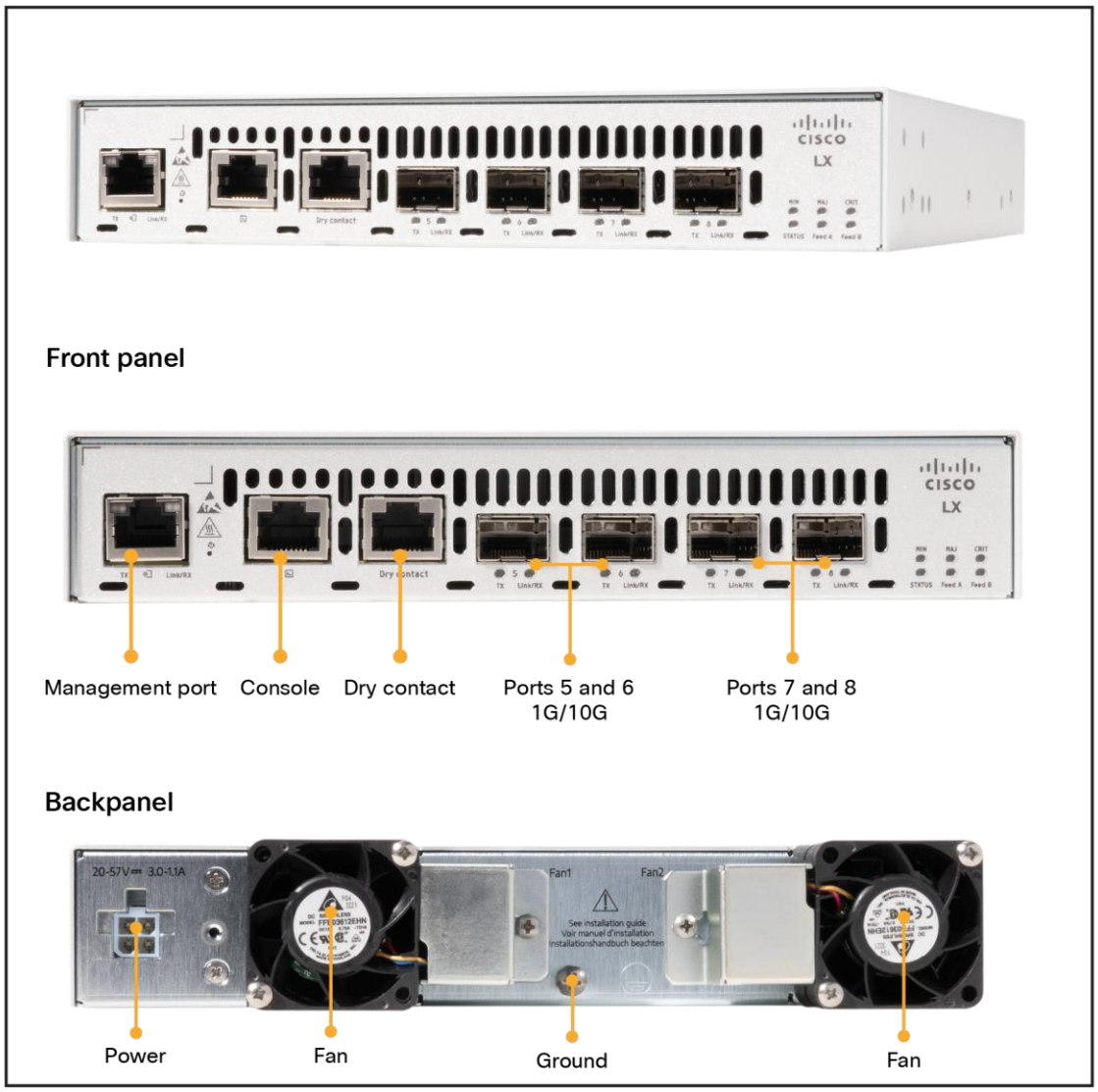


Figure 1.
Cisco LX-S

Product specifications

Table 2. Product specifications

Power	
Input voltage range	20 to 57 VDC, 3.0 to 1.1A
Power consumption	40W typical, 55W max
SFP+ slots power capability	2.0W max per slot
Interfaces	
Client	Two SFP+ ports (1000/10G BASE-X)

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Power	
Network	Two SFP+ ports (1000/10G BASE-X)
Management	One RJ-45 port (10/100/1000 BASE-T)
Console	One RJ-45 port (RS-232)
Dry contacts	One RJ-45 port (4 dry contacts)
Physical	
Dimensions (W x H x D)	201 x 38 x 229 mm (7.9 x 1.5 x 9.0 in.)
Weight	1655 g (59 oz)
Environmental	
Operating temperature	Commercial: 0° to +50°C (32° to 122°F); hardened: -40° to +65°C (-40° to +149°F)
Storage temperature	-40° to +70°C (-40° to +158°F)
Operating humidity	5% to 95% RH, noncondensing
Storage humidity	5% to 95% RH, noncondensing
Maximum altitude	2000 m (6562 ft) above sea level

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 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

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Table 3. Cisco LX-S models

Model	1/10GE SFP/SFP+ interfaces	Temperature hardened	SyncE (ITU-T G 8262.1)	Cisco PID
LX-S	4			SKY-LXS-DD
LX-SH	4	•		SKY-LXS-H-DD
LX-SY	4		•*	SKY-LXS-Y-DD
LX-SYH	4	•	•*	SKY-LXS-YH-DD

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.

Cisco Services

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing Cisco Crosswork Assurance 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

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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 Cisco Crosswork Assurance, please visit https://www.cisco.com/site/us/en/products/networking/software/provider-connectivity-assurance/index.html.

For technical documentation, visit the Cisco Crosswork Assurance Documentation site.

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Document history

New or revised topic	Described in	Date
Updated Assurance Sensor LX-S models	Table 3	November 8, 2024
Crosswork Assurance updates		May 18, 2026

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