

# Cisco Provider Connectivity Assurance Sensor F25

Formerly Accedian Skylight Flex 25  
Performance Element

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# Contents

Product overview	3
Features and benefits	3
Product specifications	4
Assurance Sensor F25 models	5
Power options and accessories	5
Cisco environmental sustainability	6
Cisco Services	6
Cisco Capital	7
Learn more	7

Get the network performance you need with ultra-low latency and jitter.

## Product overview

The Cisco® Provider Connectivity Assurance Sensor F25 (formerly Accedian Skylight Flex 25 Performance Element) is a next-generation, multiport, 25 Gigabit Ethernet platform that delivers the same ultra-low-latency packet forwarding and jitter found in the rest of the Cisco Provider Connectivity Assurance Sensor portfolio.

Designed for high-bandwidth and high-availability applications that require granular service assurance, the Provider Connectivity Assurance Sensor F25 is optimized for scalable service delivery and high-precision, real-time performance monitoring. It is an ideal edge, aggregation, or External Network-to-Network Interface (ENNI) unit for demanding high-bandwidth wireless backhaul and fronthaul, SLA-backed business services, Ethernet wholesale, and dark fiber termination applications.

The Provider Connectivity Assurance Sensor F25 provides all the tools to establish, validate, and monitor Layer 2 and Layer 3 services in a single unit. Zero-touch provisioning and IPv4/IPv6 management make these Assurance Sensors easy and secure to deploy and manage.

Fully integrated with the Cisco Provider Connectivity Assurance platform, it supports service delivery automation and scalable, real-time metrics collection and reporting. Accelerated service rollouts and improved operational efficiency are enabled by the platform's actionable insights and machine learning capabilities.

The Provider Connectivity Assurance Sensor F25 interoperates with other Cisco 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
<b>Line-rate Y.1564/RFC2544 Service Activation Testing (SAT)</b>	Helps measure services to ensure that they were activated and are performing as expected
<b>Wire-speed, MEF-certified Carrier Ethernet service delivery</b>	Delivers reliable network service across applications
<b>Precise, scalable Layer 2 service Operations, Administration, and Maintenance (OAM), including Y.1731</b>	Assists in the installation, monitoring, and troubleshooting of Ethernet networks
<b>Precise, scalable Layer 3 Two-Way Active Measurement Protocol (TWAMP) and near-real-time data transfer</b>	Measures network performance between two endpoints and provides quality-of-service (QoS) analysis
<b>MEF 10.3 hierarchical QoS enforcement</b>	Prioritizes network traffic and gives highest bandwidth to most critical operations
<b>Programmable, patented Field-Programmable Gate Array (FPGA)</b>	Offers flexibility for teams to configure network hardware according to their unique needs
<b>Optional synchronization module</b>	Adds high-precision timing capabilities required by next-generation services such as 5G-based applications



**Figure 1.**  
Cisco Provider Connectivity Assurance Sensor F25

## Product specifications

**Table 2.** Product specifications

Power and connectivity	
<b>Input power rating</b>	AC input: 100 to 240 VAC, 50 to 60 Hz, 1.0 to 0.75A max DC input: 40 to 57 VDC, 3.8 to 2.4A max
<b>Power consumption</b>	72W typical, 97W max (246 BTU/hr typical, 328 BTU/hr max)
<b>Maximum QSFP socket power consumption</b>	SFP28: 3.5W max per port
<b>Maximum SFP+ socket power consumption</b>	SFP+: 3.0W max per port
Physical	
<b>Dimensions (W x H x D)</b>	36.6 x 196.6 x 316.5 mm (1.4 x 7.7 x 12.4 in.)
<b>Weight</b>	2400 g (5.2 lb)
Environmental	
<b>Operating temperature</b>	AC or DC commercial: 0° to 50° C (32° to 122° F) DC hardened: -40° to +65° C (-40° to +149° F)
<b>Storage temperature</b>	-40° to +70° C (-40° to +158° F)
<b>Maximum altitude</b>	3000 m (9900 ft) above sea level
<b>Operating/storage humidity</b>	Operating humidity: 5% to 85% RH, noncondensing Storage humidity: 5% to 95% RH, noncondensing
Regulatory and standard compliance	

Power and connectivity	
<b>Safety</b>	IEC 62368-1, EN 62368-1, CSA/UL 62368-1, AS/NZS 62368.1, J62368-1, CEI EN 62368-1, DS/EN 62368-1, SASO-IEC-62368-1
<b>EMC - Emission (Class A)</b>	CISPR 32, IEC 61000-3-2, IEC 61000-3-3, EN 61000-3-2, EN 61000-3-3, FCC (47 CFR Part 15 Sub-part B), ICES-003, AS/NZS CISPR 32, VCCI-CISPR 32
<b>EMC - Immunity</b>	CISPR 35, EN 55035
<b>Telco</b>	NEBS Level-3: GR-63, GR-1089
<b>Radio</b>	EN 301 489-19, EN 303 413
<b>Environmental</b>	RoHS: IEC 63000, EN IEC 63000

## Assurance Sensor F25 models

**Table 3.** Assurance Sensor F25 models

Model	100GE QSFP interfaces	Power	Description	Cisco PID
<b>25G-DC</b>	4	DC	Provider Connectivity Assurance Sensor F25 quad 25 GE ports (SFP28), DC power input, commercial	F25-D
<b>25G-AC</b>	4	AC	Provider Connectivity Assurance Sensor F25 quad 25 GE ports (SFP28), AC power input, commercial	F25-A
<b>25G-DC-H</b>	4	DC	Provider Connectivity Assurance Sensor F25 quad 25 GE ports (SFP28), DC power input, hardened	F25-H-D

## 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 “Environment Sustainability” section of Cisco’s [Corporate Social Responsibility](#) (CSR) Report.

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

Sustainability topic	Reference
Information on product material content laws and regulations	<a href="#">Materials</a>
Information on electronic waste laws and regulations, including products, batteries, and packaging	<a href="#">WEEE compliance</a>

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
<b>General</b>	
Product compliance	Table 2. <a href="#">Safety and compliance information</a>
<b>Power</b>	
Power supply	Table 2. <a href="#">Product specifications: power supplies, typical and maximum power specification</a>
<b>Material</b>	
Unit weight, dimensions, and mean time between failures metrics	Table 2. <a href="#">Product specifications</a>

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## Cisco Services

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing the Cisco Provider Connectivity Assurance Sensor F25 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.

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## 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.](#)

### Learn more

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

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

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