

Cisco Provider Connectivity Assurance Sensor F100

Formerly Accedian Skylight Flex 100
Performance Element

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Enjoy accurate microsecond latency and reduced jitter in a compact, efficient hardware device.

Product overview

The Cisco® Provider Connectivity Assurance Sensor F100 (formerly Accedian Skylight Flex 100 Performance Element) is a next-generation, multiport, 100 Gigabit Ethernet platform with ultra-low-latency packet forwarding and jitter.

Designed for high-bandwidth and high-availability applications requiring MEF-type service assurance, the Provider Connectivity Assurance Sensor F100 is optimized for scalable service delivery and high-precision, granular, real-time performance monitoring. It is an ideal edge, aggregation, or External Network-to-Network Interface (ENNI) unit for demanding high-bandwidth wireless backhaul, SLA-backed business services, Ethernet wholesale, and dark fiber termination applications.

The Assurance Sensor F100 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 performance elements 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—plus actionable insights delivery and machine learning for accelerated service rollout and improved operational efficiencies.

The Assurance Sensor F100 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
Line-rate 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 Y1731 and performance assurance agent	Assists in the installation, monitoring, and troubleshooting of Ethernet networks
Precise, scalable Layer 3 Two-Way Active Measurement Protocol (TWAMP) and real-time data transfer	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
Optional synchronization module	Adds high-precision timing capabilities required by next-generation services such as 5G-based applications



Figure 1.
Cisco Provider Connectivity Assurance Sensor F100

Product specifications

Table 2. Product specifications

Power and connectivity	
Input power rating	AC input: 100 to 240 VRMS, 2.5 to 1.0A, 80 Plus Platinum DC input: 36 to 72 VDC, 6.5 to 3.25A, efficiency 80% min @48V
Power consumption	150W nom, 230W max
Maximum QSFP socket power consumption	QSFP: 5.0W (max) per slots
Maximum SFP+ socket power consumption	SFP+: 2.0W (max) per slots
Physical	
Dimensions (W x H x D)	426.6 x 44.2 x 351.3 mm (16.8 x 1.74 x 13.83 in.)
Weight	6500 g (229 oz)
Environmental	
Operating temperature	0° to 50° C (32° to 122° F)
Storage temperature	-40° to +70° C (-40° to +158° F)
Maximum altitude	2000 m (6562 ft) above sea level
Operating/storage humidity	Operating humidity 5% to 85% RH, noncondensing Storage humidity 5% to 95% RH, noncondensing
Regulatory and standard compliance (unique ID: NG100)	
Safety	IEC 62368-1, EN 62368-1, UL 62368-1, CSA C22.2 No. 62368-1, AS/NZS 62368.1, J62368-1, CEI EN 62368-1, DS/EN 62368-1, SASO-IEC-62368-1
EMC - Emission (Class A)	CISPR 32, IEC 61000-3-2, IEC 61000-3-3, EN 55032, EN 61000-3-2, EN 61000-3-3, 47 CFR Part 15 Sub-part B, ICES-003, AS/NZS CISPR 32, VCCI-CISPR 32, KS C 9832
EMC - Immunity	CISPR 35, EN 55035, KS C 9835
Telco	NEBS Level-3: GR-63, GR-1089 (Pending)
Radio	EN 301 489-1/19, EN 303 413

Power and connectivity

Environmental

RoHS: IEC 63000:2016,EN IEC 63000:2018

Assurance Sensor F100 models

Table 3. Assurance Sensor F100 models

Model	100GE QSFP interfaces	Power	Description	Cisco PID
100G-AC-DC	4	DC or AC hot swappable power supply	Provider Connectivity Assurance Sensor F100 quad 100 GE ports (QSFP28)	SKY-F100

Power options and accessories

Choose between 19- and 23-in. 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 2. 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

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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 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.](#)

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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