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Cisco Provider Connectivity Assurance Sensor Modules

Formerly Accedian Skylight Sensor Modules

Contents

Collect granular and precise network, application, and service data with Cisco Provider Connectivity Assurance Sensor Modules.

Product overview

Cisco® Provider Connectivity Assurance Sensor Modules (formerly Accedian Skylight Sensor Modules) allow you to more effectively address end-to-end service lifecycles, from Service Activation Testing (SAT) to assurance management and service demarcation. The small form factor of the modules helps keep them power-efficient, and all management capabilities are automated and orchestrated through the Provider Connectivity Assurance Sensor Control software.

These modules are equipped with a fully featured Field-Programmable Gate Array (FPGA) capable of active Layer 2 through 4 testing and traffic generation—without compromising performance, scalability, and precision. This makes Assurance Sensor Modules an ideal fit for cost- and space-sensitive applications where performance is a key service differentiator.

Features and benefits

Table 1.   Features and benefits

Feature	Benefit
Service Activation Testing (SAT)	Helps measure services to ensure that they were activated and are performing as expected
Continuous performance monitoring	Alerts team to potential issues if performance quality drops
Passive flow metering and capture	Monitors traffic flow for later analysis
Service demarcation	Shows boundaries between services to help ensure that they don't affect each other
Service assurance	Measures a service's adherence to network criteria and service SLAs
Connectivity Fault Management (CFM)	Provides continuous connectivity monitoring and fault verification and isolation to minimize network downtime

Figure 1.
Cisco Provider Connectivity Assurance Sensor Module 10G model

Product specifications and models

Assurance Sensor Module 1G models

Table 2.   Assurance Sensor Module 1G models

Model	Speed	Power supply	Ports	DHCP enabled	CLEI label	Bypass for electrical ports	Temperature hardened	Cisco PID
Assurance Sensor Module 1G	100/1000 Mbps	Internal AC	2x combo		–		–	Module1G –H–A
	100/1000 Mbps	Internal AC	2x combo		–	–	–	Module1G –HR–A
	100/1000 Mbps	DC	2x combo		–			Module1G –DD
	100/1000 Mbps	DC	2x combo		–		–	Module1G –H–DD
	100/1000 Mbps	DC	2x combo		–	–	–	Module1G –HR–DD

Assurance Sensor Module 10G models

Table 3.   Assurance Sensor Module 10G models

Model	Speed	Power supply	Ports	CLEI label	Temperature hardened	Cisco PID
Assurance Sensor Module 10G	1/10 Gbps	AC	2x SFP+	-		Module10G-A
	1/10 Gbps	DC	2x SFP+	-		Module10G-DD
	1/10 Gbps	AC	2x SFP+	-	-	Module10G-H-A
	1/10 Gbps	DC	2x SFP+	-	-	Module10G-H-DD

Assurance Sensor Module 1G model product specifications

Table 4.   Assurance Sensor Module 1G model product specifications

Power and connectivity	
AC power input	100 to 240 VAC, 0.4A max, 50 to 60 Hz
DC power input	20 to 57 VDC, 0.75A max
Physical specifications	
Dimensions (H x W x D)	1.42 x 4.67 x 5.25 in. (36.1 x 118.6 x 133.4 mm)
Weight	AC 625 g (22 oz.), DC 590 g (21 oz.)
Environmental	
Operating temperature	Commercial: 0° to 50°C (32° to 122°F), industrial: -40° to +65°C (-40° to +149°F)
Maximum altitude	2000 meters (6562 ft) above sea level
Cold start	-25°C (-13°F)
Storage temperature	-40° to +70°C (-40° to +158°F)
Operating/storage humidity	5% to 95% RH, noncondensing
Regulatory and certification	
FCC Part 15 Class B, ICES-003 Class B	

Assurance Sensor Module 10G model product specifications

Table 5.   Assurance Sensor Module 10G model product specifications

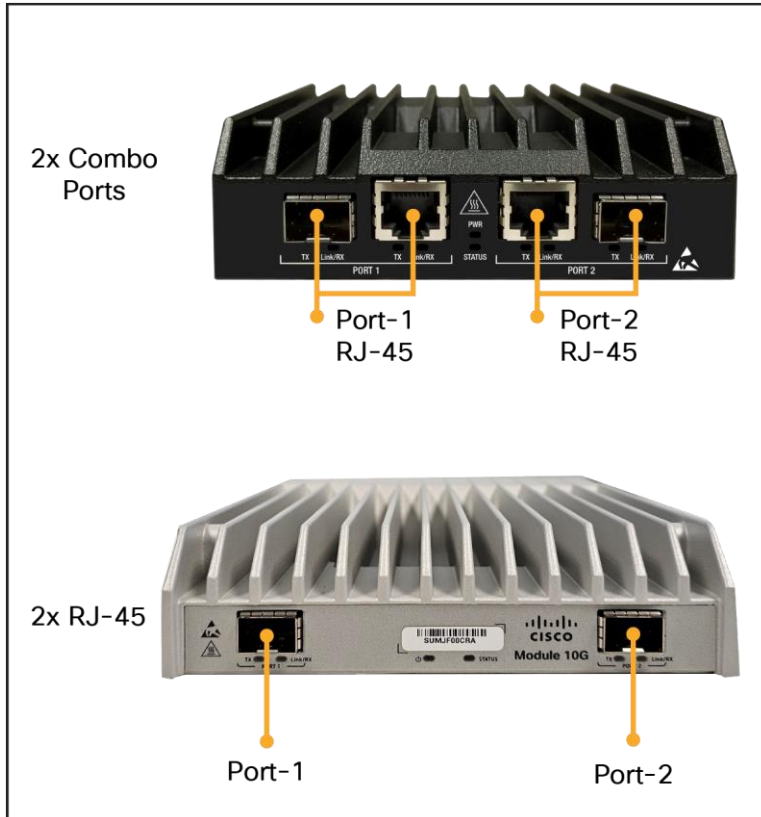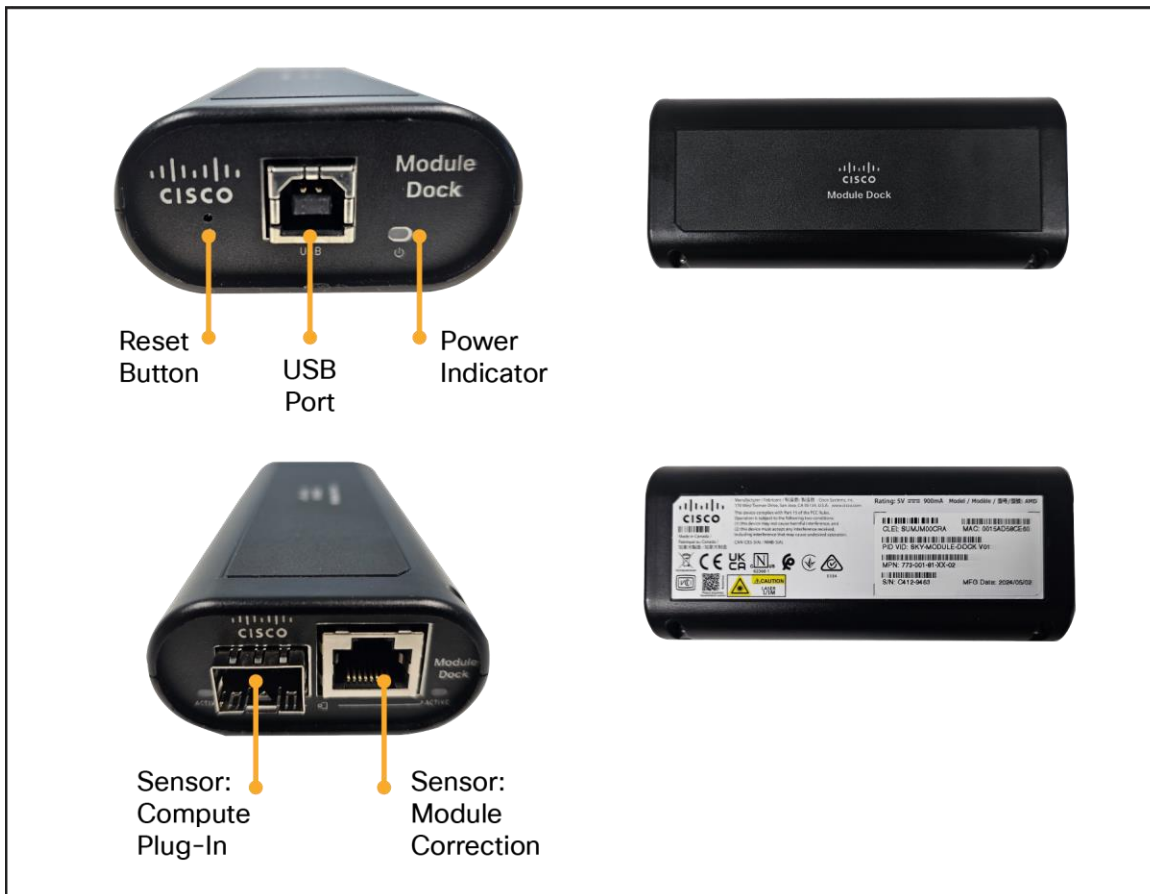| Power and connectivity	
DC power input	20 to 57 VDC, 1.75A max
AC power input	100 to 240 VAC, 50 to 60 Hz, 0.6A max
Physical specifications	
Dimensions (H x W x D)	1.5 x 5.7 x 7.8 in. (38.1 x 145 x 198 mm)
Weight	100 g (53 oz.)
Environmental	
Operating temperature	Commercial: 0° to +50°C (32° to +122°F) Industrial with CoolBreeze fan tray: –40° to +65°C (–40° to +149°F)
Maximum altitude	2000 meters (6562 ft) above sea level
Storage temperature	–40° to +70°C (–40° to +158°F)
Operating/storage humidity	5% to 95% RH, noncondensing (temperature hardened)
Regulatory and certification	
FCC Part 15 Class A, ICES-003 Class A	

Figure 2.
Cisco Provider Connectivity Assurance Sensor Module port specifications (see table for more information)

Table 6. Cisco Provider Connectivity Assurance Module Dock specifications (formerly Accedian ModuleDock)

Power and connectivity	
Supply / voltage	USB 2.0
Maximum power consumption	2.5W
LED indicators	
RJ-45 module activity LED, product LED for power and status	
Cooling	
Passive (fanless device)	
Physical specifications	
Dimensions (H x W x D)	1.15 x 2.3 x 5.4 in. (30 x 58 x 137 mm)
Weight	115 g (4 oz.)
Environmental	
Standard operating temperature	0° to +50°C (32° to +122°F)

Power and connectivity	
Storage temperature	–40° to +70°C (–40° to +158°F)
Maximum altitude	2000 meters (6562 ft) above sea level
Operating/storage humidity	20% to 80% RH, noncondensing
Language support	
The language of the AMD's application interface can be changed on the fly without restarting.	
Current	English
Warranty	
One-year limited warranty covering parts and labor	
Regulatory and certification	
FCC Part 15 / ICES 003 Class A CE Marking approval WEEE compliant	

Figure 3.
Cisco Provider Connectivity Assurance Module Dock specifications (see table for more information)

Table 7.   Provider Connectivity Assurance Module Dock models

Model	Description	Cisco PID
AMD-1000-DX	1x 12 in. (30 cm) USB 2.0 cable	773-ModDock

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.

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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.

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