Cisco Provider Connectivity Assurance Sensor Modules

Formerly Accedian Skylight Sensor Modules

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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	Bypass for electrical ports	Temperature hardened	Cisco PID
Assurance Sensor Module 1G	100/1000 Mbps	Internal AC	2x combo	No	Yes	SKY-MOD1G-H-A
	100/1000 Mbps	Internal AC	2x combo	Yes	Yes	SKY-MOD1G-HR-A
	100/1000 Mbps	DC	2x combo	No	No	SKY-MOD1G-DD
	100/1000 Mbps	DC	2x combo	No	Yes	SKY-MOD1G-H-DD
	100/1000 Mbps	DC	2x combo	Yes	Yes	SKY-MOD1G-HR-DD

Assurance Sensor Module 10G models

Table 3. Assurance Sensor Module 10G models

Model	Speed	Power supply	Ports	Temperature hardened	Cisco PID
Assurance Sensor Module 10G	1/10 Gbps	AC	2x SFP+	No	SKY-MOD10G-A
	1/10 Gbps	DC	2x SFP+	No	SKY-MOD10G-DD
	1/10 Gbps	AC	2x SFP+	Yes	SKY-MOD10G-H-A
	1/10 Gbps	DC	2x SFP+	Yes	SKY-MOD10G-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.)

Power and connectivity	
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

Regulation and Standard Compliance (Model: ANT2)

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, IEC 61000-3-2, IEC 61000-3-3, EN 55032, EN 61000-3-2, EN 61000-3-3, FCC Part 15 (CFR 47), 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
Environmental	RoHS; IEC 63000, EN IEC 63000; WEEE

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.)

Power and connectivity	
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)

Regulation and Standard Compliance (Model: ANT10, ANT10h)

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, IEC 61000-3-2, IEC 61000-3-3, EN 55032, EN 61000-3-2, EN 61000-3-3, FCC Part 15 (CFR 47), 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
Environmental	RoHS; IEC 63000, EN IEC 63000; WEEE

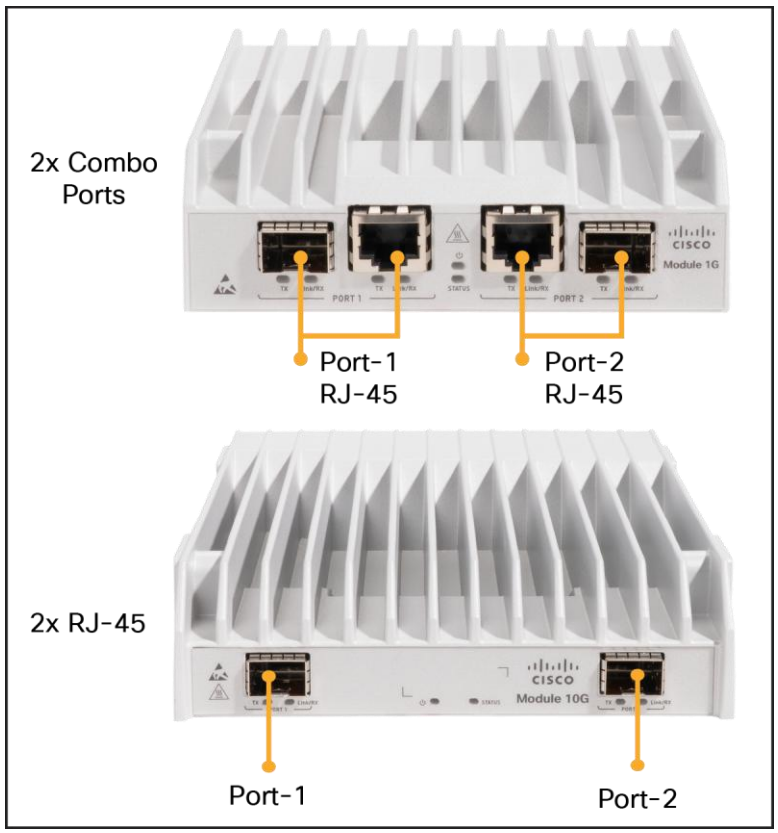

Figure 2.
Cisco Provider Connectivity Assurance Sensor Module port specifications (see table for more information)

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)
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	

Regulation and Standard Compliance (Model: AMD)

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 (47 CFR 15, Subpart B), ICES-003, AS/NZS CISPR 32, VCCI-CISPR 32, KS C 9832
EMC - Immunity	EN 55035, KS C 9835
Environmental	RoHS; IEC 63000, EN IEC 63000; WEEE

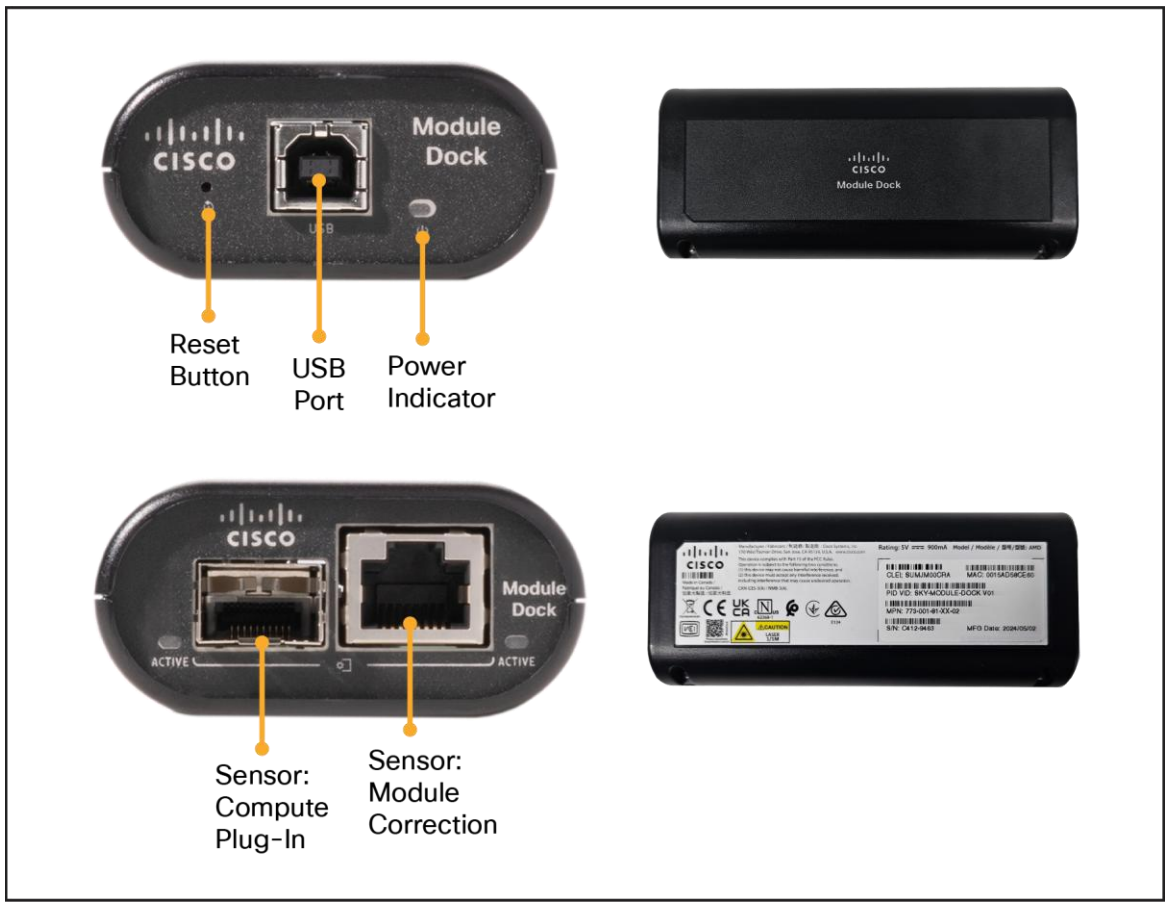

Figure 3.
Cisco Provider Connectivity Assurance Module Dock specifications (see table for more information)

Table 7. Connectivity Assurance Module Dock models

Model	Description	Cisco PID
Assurance Module Dock	1x 12 in. (30 cm) USB 2.0 cable	SKY-MODULE-DOCK

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 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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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.

For technical documentation, visit the Cisco Provider Connectivity Assurance Documentation site.

Document history

New or Revised Topic	Described In	Date
Updated bypass for electrical ports, temperature hardening and PIDs for Assurance Sensor Model 1G	Table 2	October 9, 2024
Updated temperature hardened and PIDS for Assurance Sensor Model 10G	Table 3	October 9, 2024
Replaced 1G module image with Cisco-branded module image and adjusted Module Dock naming	Figure 2, Table 7	October 9, 2024

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