Cisco Provider Connectivity Assurance Sensors GT/GT-S

Formerly Accedian Skylight GT/GT-S Performance Elements

Contents

Get scalable service delivery and high-precision network performance monitoring.

Product overview

The Cisco® Provider Connectivity Assurance Sensors GT and GT-S (formerly Accedian Skylight GT and GT-S Performance Elements) are compact, 1-gigabit Ethernet platforms with ultra-low latency packet forwarding and jitter. Designed for high-availability applications requiring Metro Ethernet Forum (MEF)-type service assurance, the Assurance Sensor GT/GT-S is optimized for scalable service delivery and high-precision performance monitoring. Mobile operators deploying Carrier Ethernet backhaul to macro cell sites value the Assurance Sensor's combined networking and standards-based QoS monitoring capabilities. Business Ethernet service providers value the unit's exceptional feature set, reliability, versatile power options, and performance monitoring, which also make it the perfect fit for small cell deployments.

Assurance Sensors GT and GT-S provide all the tools to establish, validate, and monitor Layer 2 and Layer 3 services in a single, small footprint. This is a flexible, scalable alternative to switches and routers when delivering resilient services over optical linear or G.8032 ring topologies. Zero-touch provisioning and IPv4/IPv6 management make these performance elements easy to deploy, manage, and secure.

Fully integrated with Cisco Provider Connectivity Assurance platform, the GT/GT-S supports service delivery automation, scalable metrics collection, and reporting—along with actionable insights and machine learning for accelerated service rollout and improved operational efficiencies.

The GT/GT-S 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
Y.1564/RFC2544 Service Activation Testing (SAT)	Helps measure services to ensure they were activated and 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 QoS analysis
MEF 10.3 hierarchical QoS performance elements and granular traffic shaping	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

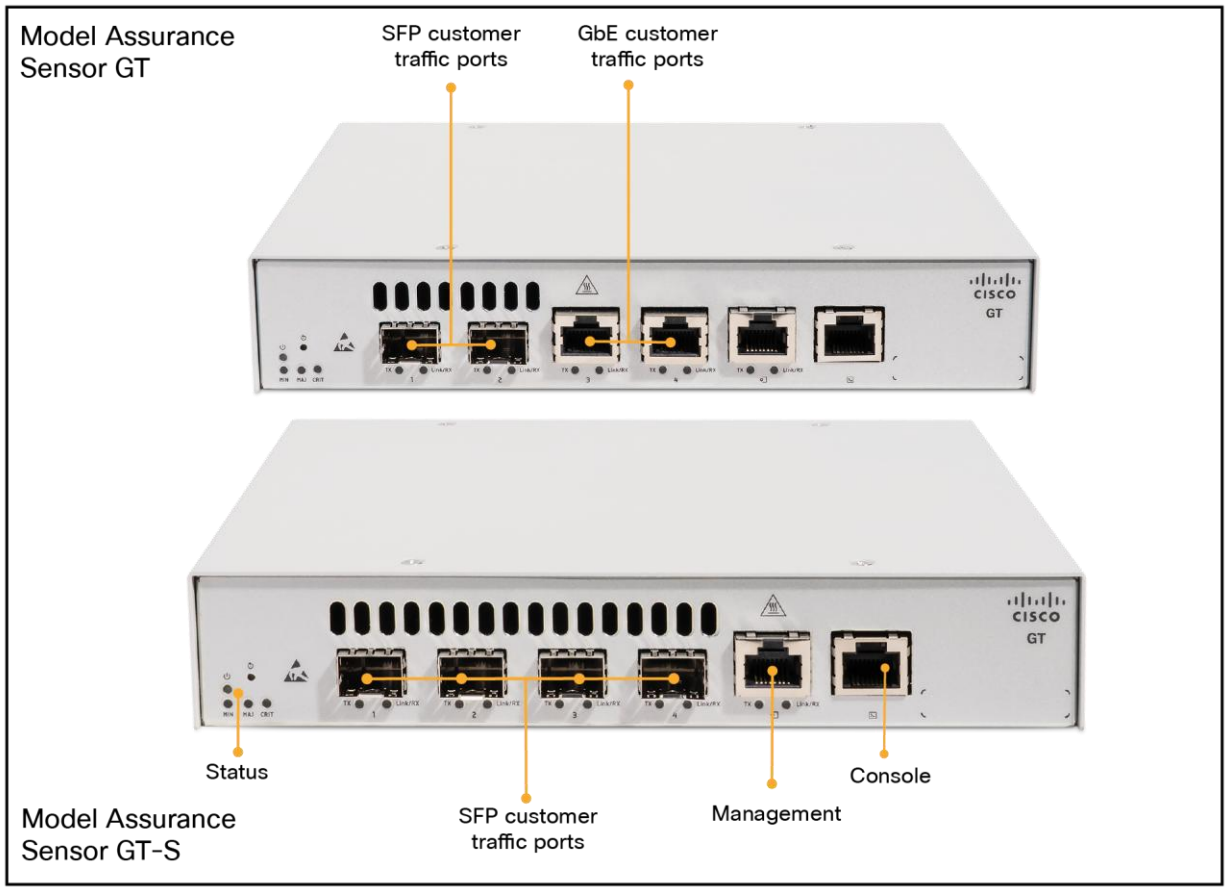

Figure 1.
Cisco Provider Connectivity Assurance Sensors GT and GT-S

Product specifications

Table 2. Product specifications

Power and connectivity	
AC input (single or dual)	100–240 VAC, 50–60 Hz, 0.5–0.3 A
DC input	Dual (A/B), 20–57 VDC, 1.25 A max For centralized DC power connection, the equipment must be installed in a restricted-access location
Power consumption	<22 watts
Maximum SFP socket power consumption	1.5 watts per socket, up to 5 watts total
Physical	
Dimensions (H x W x D)	1.5 x 7.9 x 6.8 in (38 x 200 x 172 mm)
Weight	1.35 kg (3.0 lbs)

Power and connectivity	
Environmental	
Standard operating temperature	0° to +50°C (32° to 122°F) (standard) 0° to +40°C (32° to 104°F) (when powered with the external AC/DC power supply)
Hardened operating temperature (-H models only)	-40° to +65°C (-40° to 149°F)
Storage temperature	-40° to +70°C (-40° to 158°F)
Maximum altitude	2000 meters above sea level
Operating/storage humidity	5-95% RH, non-condensing

Regulation and Standard Compliance (Model: NID4)

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
Contact Cisco for other market(s) certification status TBF (AC powered unit) 30 yrs at 25°C (77°F) per Telcordia SR-332 method issue 2 22 yrs at 40°C (104°F) per Telcordia SR-332 method issue 2 MTBF (DC powered unit) 83 yrs at 25°C (77°F) per Telcordia SR-332 method issue 2 38 yrs at 40°C (104°F) per Telcordia SR-332 method issue 2 NEBS Level 3 Compliant with MEF20 (UNI Type II)	

Assurance Sensor GT and GT-S models

Table 3. Assurance Sensor GT models

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	Temp. hardened	Cisco PID
GT-H DC	2	2	•	SKY-GT-H-DD
GT AC	2	2		SKY-GT-A
GT AC-AC	2	2		SKY-GT-AA

Table 4. Assurance Sensor GT-S models (all SFP)

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	Temp. hardened	Cisco PID
GT-SH DC	0	4	•	SKY-GTS-H-DD
GT-S AC	0	4		SKY-GTS-A
GT-S AC-AC	0	4		SKY-GTS-AA

Figure 2.
Cisco Provider Connectivity Assurance Sensor GT/GT-S back view

Power options and accessories

Choose between 19" and 23" 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

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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.

Document history

New or revised topic	Described In	Date
Updated Assurance Sensor GT and GT-S models	Table 3 and Table 4	November 7, 2024

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