ACCEDIAN

Datasheet
Skylight performance element: GX
Models GX, GX-S

The Skylight GX performance element is a compact eight port 1 gigabit Ethernet platform with ultra-low latency packet forwarding and jitter. Designed for high-availability applications requiring MEF-type service assurance, the GX is optimized for scalable service delivery and high-precision performance monitoring. It is an ideal single on-premise endpoint for demanding wireless backhaul, SLA-backed business services, Ethernet wholesale and dark fiber termination applications. Switch-free aggregation, granular L2-4 traffic conditioning and MEF hierarchical-QoS flow prioritization also make the GX an important part of many service providers service enablement and demarcation applications.

A programmable, patented dual-plane FPGA architecture powers the GX's unique combination of scalable, integrated features:
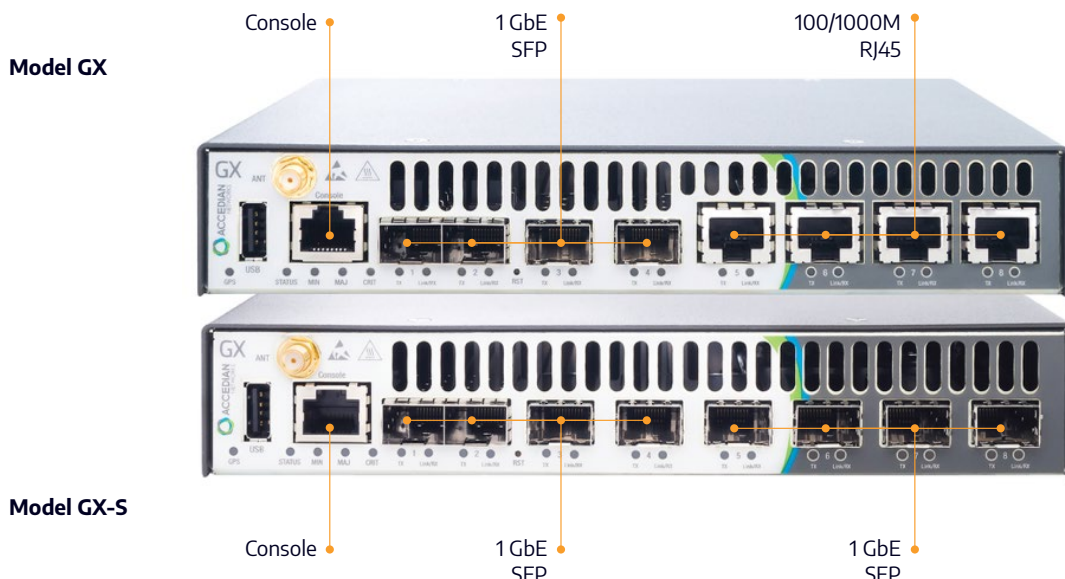
- Wire-speed, MEF-certified Carrier Ethernet service delivery
- Y.1564/RFC2544 Service Activation Testing (SAT)
- Layer 2 Service OAM, including Y1731 and PAA
- Layer 3 TWAMP Light generation and reflection

- MEF 10.3 hierarchical quality of service (H-QoS) enforcement

GX elements provide all the tools to establish, validate, and monitor Layer 2 and Layer 3 services in a single, small footprint unit. 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 and secure to deploy and manage.

Fully integrated with the Skylight Orchestrator and Analytics solutions, it supports service delivery automation and scalable metrics collection and reporting along with actionable insights delivery and machine learning for accelerated service roll-out and improved operational efficiencies.

The GX interoperates with other Accedian performance elements and other sensors to deliver a scalable end-to-end and core-to edge performance assured networking solution tailored to your applications.

Model GX

Console   1 GbE SFP   100/1000M RJ45

Model GX-S

Console   1 GbE SFP   1 GbE SFP

Specifications

Power & connectivity

AC input	100-240 VAC, 50-60 Hz, 1.2-0.5 A
DC input	Dual (A/B), 20-57 VDC, 2.3 A max For centralized DC power connections, the equipment must be installed in a restricted access location
Auxiliary input	24 VDC, 1.7A Max
Power consumption	<40 watts
Maximum SFP socket power consumption	1.5 watts for NNI ports, 1.05 watts for UNI ports

Physical specifications

Dimensions	1.38" H x 7.9" W x 6.8" D in. (35 H x 200 W x 172 D mm)
Weight	1.35kg or 3.0lbs

Environmental

Standard operating temperature	0°C to +40°C (when using the internal AC power supply) 0°C to +40°C (when using the external AC/DC power supply) 0°C to +50°C (when using the DC power supply)
Hardened ambient operating temperature range	-40°C to +65°C (-H models only)
Storage temperature	-40°C to +70°C
Operating/storage humidity	5-95% RH, non-condensing

Regulatory and certification

Certification safety model name (unique identifier): NID5
IEC 60950-1/UL 60950-1/CSA C.22.2 No 60950-1
FCC Part 15 Class A, Industry Canada ICES-003,
CE marking and RoHS compliant, WEEE compliant
NEBS Level 3
Compliant with MEF20 (UNI type II)
Compliant with MEF22 (ethernet mobile backhaul)
Contact Accedian for others market(s) certification's status

GX models

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	Temp. hardened	GPS	SyncE	Part number
GX DC	4	4				727-020
GX-H DC	4	4	•			727-120
GX-G DC	4	4		•		727-220
GX-GH DC	4	4	•	•		727-320
GX-Y DC	4	4			•	727-420
GX-YH DC	4	4	•		•	727-520
GX AC	4	4				727-040
GX-G AC	4	4		•		727-240
GX-Y AC	4	4			•	727-440

GX-S models (all SFP)

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	Temp. hardened	GPS	SyncE	Part number
GX-S DC	0	8				728-020
GX-SH DC	0	8	•			728-120
GX-SG DC	0	8		•		728-220
GX-SGH DC	0	8	•	•		728-320
GX-SY DC	0	8			•	728-420
GX-SYH DC	0	8	•		•	728-520
GX-S AC	0	8				728-040
GX-SG AC	0	8		•		728-240
GX-SY AC	0	8			•	728-440

Dual DC
Power

Fans

Power options & accessories

19" and 23" rackmount and wall mount options as well as
AC power options also available with this product.
Please refer to the Accedian ordering guide for details
about the different accessories available with this product.

Contact us

For detailed specifications, ask for a copy of our
Capabilities Matrix. Our engineers can help you
select the right unit for your application:
Accedian.com/contact