

801G GigaPoint



DESCRIPTION

The Calix 801G GigaPoint is an indoor, 2.5 Gbps GPON small form factor service delivery terminal that delivers broadband connectivity to the subscriber. This high-performance terminal features one gigabit Ethernet (GE) interface delivering IPTV video and data service.

The 801G GigaPoint is designed for the industry-leading Calix E-Series fiber access GPON optical line terminals (OLTs). The GigaPoint terminates a GPON fiber optic link at the subscriber's premises and provides an industry-standard interface for the customer premises equipment. The 801G GigaPoint enables residential subscribers to receive gigabit broadband data and IP video on a single fiber. The GigaPoint establishes a strategic network termination point for the delivery and control of broadband services.

EASY TO INSTALL, ACTIVATE, AND MAINTAIN: With the 801G GigaPoint Calix has redefined how to install and activate residential services at a subscriber's premises. Using the Calix Smart Activate feature a field technician can install and apply the subscriber's service profile without special equipment or assistance from the central office. Calix also provides the innovative Compass software portfolio, enabling the service provider to configure, activate and upgrade the GigaPoint using in-band management. Extensive troubleshooting capabilities, remote software downloads, and easy-to-use service activation ensures that services are delivered and maintained without needless truck rolls and hardware upgrades. Employing 801G GigaPoint allows service providers to reduce their operational expenses while effectively delivering the gigabit experience to their subscribers.

GigaPoint power options include a 120-240 VAC, 50-60 Hz to 12 VDC converter or a 120-240 VAC, 50-60 Hz AC to 12 VDC uninterruptible power supply (UPS) that provides battery backup in the event of local AC power loss. The UPS includes audible alarms to indicate battery status allowing the subscriber to monitor performance of the unit.

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KEY ATTRIBUTES

- Standards-based Full Service Access Network (FSAN), ITU-T GPON compliant
- One gigabit Ethernet (GE) interface:
 - Symmetrical 1 Gbps bandwidth for residential IPTV and data services
 - Multi-rate 10/100/1000 BaseT Ethernet, auto-negotiating
- Supports multiple data service profiles
- Traffic management and Quality of Service (QOS):
 - 802.1Q VLANs
 - 802.1p service prioritization
 - Q-in-Q tagging
 - Multiple VLANs
 - Rate limiting
 - DiffServ
 - Pre-defined QOS on service type
- IPTV, IGMPv2, IGMPv3:
 - IGMP Snooping and Proxy
 - IGMP Fast Leaves
- Complete OAM&P support via Calix Management System (CMS)
- Indoor mounting options:
 - Wall mount
 - Structured Wiring Enclosure (SWE) mount
 - Desktop mount: horizontal or vertical
- AC to 12 VDC power adapter available for non-lifeline services
- Optional uninterruptable service power source with in-home battery backup and audible alarms



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SPECIFICATIONS

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DIMENSIONS

Height: 4.0 in (10.2 cm)
Width: 3.0 in (7.6 cm)
Depth: 1.25 in (3.2 cm)
Weight: 4 oz. (.1 kg)

PON CHARACTERISTICS

Max. split: 64 GPON
Max. reach: 58 km (36 miles) with C+/FEC
Maximum Optical Distribution Network (ODN) Attenuation:
GPON Class B+, 28 dB
GPON Class C+, 32 dB
1490 ± 10 nm optical receiver: -27.0 to -8.0 dBm
1310 ± 20 nm optical transmitter: 0.5 to 5.0 dBm

INTERFACES

Data/IPTV: One 10/100/1000 BaseT Ethernet port, RJ-45 connector
PON: Single 9/125 μm (single mode) fiber, SC/APC connector, minimum 50 dB return loss
Power: 2-pin connector

DATA

Drop length: 328 feet (100 m) maximum using CAT5 cable
Auto MDI/MDIX crossover for 1000BASE-TX, 100BASE-TX, and 10BASE-T ports
Traffic Management and QOS: 802.1Q VLAN; 802.1p Video, Data and Management Priorities; Q-in-Q tagging; Per-Port Rate Shaping; Rate Limiting

ENVIRONMENTAL

Operating temperature: Indoor ambient temperature, 0° to 40°C
Operating/storage relative humidity: 8 to 95 % non-condensing
Altitude: -200 to 10,000 feet (-61 to 3,048 m) above sea level

CERTIFICATION AND COMPLIANCE

Emissions:
FCC Part 15 Class B
IC ICES-003 Class B
CISPR-22
Safety:
UL 60950 and UL 1697 approved
IEEE: 802.3, 802.3AB, 802.3U, 802.11np, 802.11nQ

POWERING AND ALARMS

2-pin connector
Input voltage: 12 VDC (nominal), 10 VDC (min.), 15 VDC (max)
External Power Adapter: 12 VDC, 1.5 A
Typical Power: 5 W, Peak Power: 7 W
2-pin power cable for UPS support
Dying Gasp

ORDERING INFORMATION

Calix 801G GigaPoint

100-04253..... 801G GigaPoint, 1 GE

Calix 801G Power Adapters

100-04323..... Power Adapter CPA3 12V 1.5Amp - AM Type A
100-04324..... Power Adapter CPA3 12V 1.5Amp - EU Type C
100-04037..... Power Adapter CPA5 12V 2.5Amp - UK Type G
100-04038..... Power Adapter CPA5 12V 2.5Amp - AU/NZ Type I
100-04039..... Power Adapter CPA5 12V 2.5Amp - AR Type I

Calix 801G Packages with Power Adapter

000-00891..... 801G GigaPoint, 1 GE -AM Type A Power Adapter
000-00892..... 801G GigaPoint, 1 GE -EU Type C Power Adapter
000-00893..... 801G GigaPoint, 1 GE -UK Type G Power Adapter
000-00894..... 801G GigaPoint, 1 GE -AR Type I Power Adapter
000-00895..... 801G GigaPoint, 1 GE -AU/NZ Type I Power Adapter

