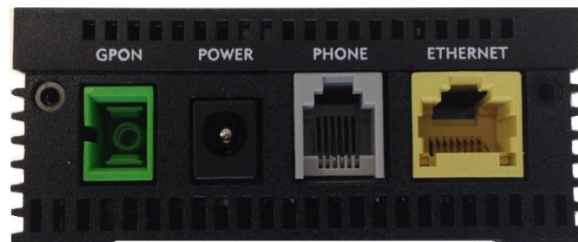# 803Gv2 GigaPoint

D E S C R I P T I O N

The Calix 803Gv2GigaPointis 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 services, and option for one voice line supporting carrier grade VoIP.

The 803Gv2 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 803Gv2 GigaPoint enables residential subscribers to receive gigabit broadband data and IP video, and VoIP 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 803Gv2 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 803Gv2 GigaPoint allows service providers to reduce their operational expenses while effectively delivering the gigabit experience to their subscribers.

K E Y   A T T R I B U T E S

- 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.
- One voice line
  - FXS ports, ANSI or ETSI
  - Carrier grade SIP
  - Supports multiple data service profiles.
- Traffic management and Quality of Service (QOS):
  - 802.1Q VLANs
  - 802.1pservice prioritization
  - Q-in-Q tagging
  - Multiple VLANs
  - Rate limiting
  - DiffServ

- Pre-defined QOS on service type.
- IPTV, IGMPv2, IGMPv3:
  - IGMP Snooping
  - IGMP Fast Leaves
- Complete OAM&P support via Calix Management System (CMS)
- Indoor mounting options:
  - Wall mount
  - Desktop mount: horizontal or vertical
- AC to 12 VDC power adapter available for non-lifeline services.

803Gv2 GigaPoint

Calix

SPECIFICATIONS
803Gv2 GigaPoint

DIMENSIONS

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

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
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
Telephony (803Gv2): One RJ-11
 connector
PON: Single 9/125 μm (single mode)
 fiber, SC/APC connector, minimum
 50 dB return loss
Power: 2-pin connector

TELEPHONY

General: SIP
Number of lines:1
RENs:5 maximum
Drop length: Maximum 500 feet
 (152.4 m)
DS0 Output: 25 mA
Ring Voltage:45–55 VAC

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; 802.1pVoice, 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
 (32° to 104°F)
Operating/storage relative humidity:
 10 to 95 % non-condensing
Altitude: 0 to 10,000 feet
 (0 to 3,048 m) above sea level

CERTIFICATION AND COMPLIANCE

Emissions:
 FCC Part 15 Class B
 IC ICES-003 Class B
 CISPR-32
Safety:
 UL 60950 and UL 1697 approved
IEEE:802.3, 802.3AB, 802.3U,
 802.11p, 802.11Q

POWERING AND ALARMS

2-pin connector
Input voltage: 12 VDC (nominal),
 10 VDC (min.), 15 VDC (max)
External Power Adapter: 12 VDC, 1A
Typical Power: 5 W, Peak Power: 7 W
2-pin power cable for UPS support
Dying Gasp

ORDERING INFORMATION

Calix 803Gv2 GigaPoint

100-04797..........................803Gv2 GigaPoint, 1 GE, 1 POTS