P R O D U C T   D A T A S H E E T

801Gv2 GigaPoint

D E S C R I P T I O N

The Calix 801Gv2 GigaPointis 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 801Gv2 GigaPointis 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 801Gv2 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 801Gv2 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 801Gv2 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
- 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
- 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
- Optional uninterruptable service power source with in-home battery backup and audible alarms

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DIMENSIONS

Width:3.0 in (7.6 cm)
Height:4.0 in (10.2 cm)
Depth:1.25 in (3.2 cm)
Weight: 4 oz. (.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
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 (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, 0.5 A
Typical Power: 5 W, Peak Power: 7 W
2-pin power cable for UPS support
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O R D E R I N G   I N F O R M A T I O N

Calix 801Gv2 GigaPoint

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