Base Product

CommScope FLX™ ONU, ITU based data only bridge ONU for indoor commercial and residential customer premises applications

PRELIMINARY SPECIFICATION

The CommScope FLX™ 1Gb/s GPON ONU, Model SF2400G is an ITU-T based open OMCI data only GPON ONU for indoor commercial and residential customer premise applications. The ONU provides operators with an off-the-shelf plug and play high-speed service access and distribution device for deployment with CommScope’s GPON Optical Line Terminal (OLT) platforms.

The ONU requires minimal setup and configuration to enable operation. For connection to various subscriber-side premises equipment, the unit supports four auto-sensing RJ-45 copper ports, at 100/1000BaseT. The ONU supports bridged mode operation, with standards and protocol support to enable numerous commercial services and premise demarcation applications. With open OMCI provisioning support, the ONU is designed to support multi-vendor interoperability with GPON OLT vendor systems.

Key Features:

- GPON ITU-T G.984 compliant ONU, data-only, bridge ONU, for indoor commercial and residential services applications
- Open OMCI based management for provisioning of data, IPTV, and VoIP features
- IPv6 Support
- Advanced Quality of Service features ensure optimal data and VoIP communications
- SC/APC (Green) Optical Interface
- Four 1GE subscriber facing UNI LAN ports
- Secure data transport with 128-bit AES encryption
- ONU Power Supplies with regional plug style options

Ordering information: The Orderable Part Numbers are in Bold.

ONU SF2400G is offered in four kit configurations with regional power plug options. (US, UK, EU, AU)

- **620678-001-00** includes: SF2400G (617056-001-00), and US style plug (United States)
- **620678-002-00** includes: SF2400G (617056-001-00), and UK style plug (United Kingdom)
- **620678-003-00** includes: SF2400G (617056-001-00), and EU style plug (European Union)
- **620678-004-00** includes: SF2400G (617056-001-00), and AU style plug (Australia)

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Product Type

PON ONU unit

Product Brand

CommScope FLX™

General Specifications
LED Indicator, PWR
Dark = Power Off    |    Green = Power On

LED Indicator, PON
Flickering Green = Negotiating with OLT    |    Red = No PON
Signal    |    Solid Green = Traffic Enabled

LED Indicator, LAN
Flickering Green = Active Ethernet traffic    |    Red = No PON
Signal    |    Solid Green = Traffic Enabled

Provisioning and Monitoring
Open OMCI Management

Transmission Standards
GPON ITU-T G.984    |    IEEE 802.3ah    |    IEEE 802.3az    |    IEEE 802.3u    |    IEEE 802.3z

Dimensions
Height
32 mm    |    1.26 in

Width
159 mm    |    6.26 in

Length
109 mm    |    4.291 in

Electrical Specifications

Electrical Interfaces
4x1G RJ45 connectors capable of 1GigE or 100M or 10M    |    LAN Port Surge Protection +/- 2.5kV

Electrical Safety Standard
CAN/UL62368-1    |    CE    |    ETL    |    IEC/EN 62368-1    |    cETL

Electromagnetic Compatibility/Interference (EMC/EMI)

Power Consumption, maximum
3.3 W

Power Supply
External 12V/1.5A power supply with Input Voltage 110-240Vac, 50 - 60Hz, with regional power supply plug options (US, UK, EU, AU)

Optical Specifications

Optical Port Interface
SC/APC

Optical Power
Downstream: 1490nm Rx (5nm window)    |    Input power: -8 dBm to -29dBm    |    Output power: 0.5 dBm to +5.0 dBm    |    Upstream: 1310nmTx (7nm window)

Environmental Specifications

Operating Temperature
0 °C to +40 °C (+32 °F to +104 °F)

Storage Temperature
-40 °C to +70 °C (-40 °F to +158 °F)

Relative Humidity
10%–85%, non-condensing
Energy Efficiency Standard

Packaging and Weights

Weight, net

0.635 kg | 1.4 lb

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>RCM</td>
<td>Compliant to electrical safety &amp; telecommunications requirements</td>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
</tr>
<tr>
<td>UK-ROHS</td>
<td>Compliant</td>
</tr>
</tbody>
</table>