Base Product

CommScope FLX™ ONU, IEEE DPoE based data-only bridge EPON ONU for indoor commercial and residential customer premises applications

The CommScope FLX™ 1G EPON ONU SF2400E is a DPoE based data-only bridge ONU for indoor commercial and residential customer premises applications. The SF2400E provides operators with an off-the-shelf plug and play high-speed service access and distribution device for communicating with CommScope 10G/1G EPON Optical Line Terminal (OLT) platforms.

The 1G EPON ONU requires minimal setup and configuration to enable operation and provides support for both 1.25/1.25 GB/s symmetric and 2.5/1.25 Gb/s asymmetric EPON modes of 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 DPoE v2 provisioning support, the ONU is designed to support multi-vendor interoperability with EPON OLT systems.

Ordering Information: The Orderable Part Numbers are in Bold.
SF2400E is offered in five kit configurations with regional power plug options. (US, UK, EU, AU, JP)

- **620677-001-00** includes: SF2400E (617049-001-00), and US style plug (United States)
- **620677-002-00** includes: SF2400E (617049-001-00), and UK style plug (United Kingdom)
- **620677-003-00** includes: SF2400E (617049-001-00), and EU style plug (European Union)
- **620677-004-00** includes: SF2400E (617049-001-00), and AU style plug (Australia)
- **617049-002-00** includes: SF2400E (617049-001-00), and JP style plug (Japan)

**Product Classification**

<table>
<thead>
<tr>
<th>Regional Availability</th>
<th>Asia</th>
<th>Australia/New Zealand</th>
<th>EMEA</th>
<th>Latin America</th>
<th>North America</th>
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</thead>
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<table>
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<tr>
<th>Product Type</th>
<th>PON ONU unit</th>
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<tr>
<th>Product Brand</th>
<th>CommScope FLX™</th>
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**General Specifications**

<table>
<thead>
<tr>
<th>LED Indicator, PWR</th>
<th>Green = Power On</th>
<th>Off = Power Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Indicator, PON</td>
<td>Flickering Green = Negotiating with OLT</td>
<td>Red = No PON Signal</td>
</tr>
<tr>
<td>LED Indicator, LAN</td>
<td>Flickering Green = Active Ethernet traffic</td>
<td>Green = Connected to link, no data traffic</td>
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</tbody>
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<tr>
<th>Transmission Standards</th>
<th>1000BASE-T</th>
<th>100BASE-TX</th>
<th>IEEE 802.3ah</th>
<th>IEEE 802.3 az</th>
<th>IEEE 802.3u</th>
<th>IEEE 802.3z</th>
</tr>
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**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/UPC
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
CoC V7 | Energy Efficiency Level 6

Packaging and Weights

Weight, net 0.635 kg | 1.4 lb

Regulatory Compliance/Certifications

Agency Classification
ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
RCM Compliant to electrical safety & telecommunications requirements
ROHS Compliant