# SF2400G | 617056-001-00



CommScope FLX™ ONU, 1x1G GPON, SC/APC, for indoor commercial and residential customer premise applications

PRELIMINARY SPECIFICATION

The CommScope FLX™ 1Gb/s GPON ONU, Model SF2400G is an open OMCI based data only 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 of the SF2400G :

- 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 voice 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 :

- **617056-001-00** ONU SF2400G, 1G EPON ONU, 4x1G LAN Ports, SC/APC (Note: ONU power supplies are ordered separately)
- **618228-001-00** ONU SF2400GPower Supply, US style plug (United States)
- **618229-001-00** ONU SF2400GPower Supply, UK style plug (United Kingdom)
- **618230-001-00** ONU SF2400GPower Supply, EU style plug (European Union)
- **618231-001-00** ONU SF2400GPower Supply, 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™ |

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## 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   \|   Green = Connected to link, no data traffic   \|   Off = No Ethernet link |
| **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/EN62368-1   \|   cETL |
| **Electromagnetic Compatibility/Interference (EMC/EMI)** | AS/NZS CISPR 32.2015   \|   EMC/EMI: FCC 47 CFR 15, Sub Part B, Class B   \|   EN55035   \|   EN555032   \|   FCC Class B   \|   Surge compliant with K.21 2020, 2.5KV(1.2/50us, common mode)   \|   VCCI-CISPR 32:2016 |
| **Power Consumption, typical** | 3.3 W |
| **Power Supply** | External 12V/1.5A power supply with Input Voltage 110-240Vac, 50 - 60Hz, ordered separately, 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) |

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| | |
|---|---|
| **Relative Humidity** | 10%–85%, non-condensing |
| **Energy Efficiency Standard** | CoC V7 | Energy Efficiency Level 6 |

## Packaging and Weights

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|---|---|
| **Weight, net** | 0.29 kg | 0.64 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 |

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