SF2400E | 617049-001-00

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

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	Green = Power On	Off = Power Off
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
Transmission Standards	1000BASE-T	100BASE-TX	IEEE 802.3ah	IEEE 802.3az	IEEE 802.3u	IEEE 802.3z

Dimensions

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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)	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, 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

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UK-ROHS   Compliant

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