SF2101XE | 619566-001-00

CommScope FLX™ ONU, 1x1G, 1x10G LAN Ports, SC/UPC, for indoor commercial and residential customer premise applications

PRELIMINARY SPECIFICATION

The CommScope FLX™10Gb/s EPON ONU Model SF2101XE is an IEEE 802.3av compliant, data only, bridge mode 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 EPON Optical Line Terminal (OLT) platforms. The ONU is designed to support interoperability with other EPON OLT vendor systems. The ONU requires minimal setup and configuration to enable operation and provides support for 10/10 Gb/s symmetric EPON modes of operation. For connection to various subscriber side premises equipment, the unit supports one 10GE auto-sensing RJ45 port and one 1GE auto-sensing RJ-45 port, at 100/1000BaseT. The ONU supports bridged mode operation, with standards and protocol support to enable numerous commercial services and premise demarcation applications.

Key features of the SF2101XE :

- IEEE 802.3av compliant data only, bridge ONU for indoor commercial and residential services applications
- 10Gb/s Downstream and 10Gb/s Upstream EPON Interface
- Data services and service flows configurable with DPoE V2.0 for OLT interoperability and PON Link Management
- DPoE based data only ONU
- Supports Triple Play services, voice, video, and high-speed internet
- IPv6 Support
- Advanced Quality of Service features ensure optimal data and VoIP communications
- One 10GE subscriber facing UNILAN port
- One 1GE subscriber facing UNILAN port
- Secure data transport with 128-bit AES encryption

Ordering information: The Orderable Part Numbers are in Bold
ONU SF2101XE is offered in five kit configurations with regional power plug options. (US, UK, EU, AU, JP)

- **620679-001-00,** includes: SF2101XE (619566-001-00), and US styleplug (United States)
- **620679-002-00,** includes: SF2101XE (619566-001-00), and UK styleplug (United Kingdom)
- **620679-003-00,** includes: SF2101XE (619566-001-00), and EU styleplug (European Union)
- **620679-004-00,** includes: SF2101XE (619566-001-00), and AU style plug (Australia)
- **619566-003-00,** includes: SF2101XEJ (619566-002-00), 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

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LED Indicator, PWR	Dark = Power Off | Green = Power On
LED Indicator, PON	Dark = Not registered to OLT | Green = Registered to OLT
LED Indicator, PON Alarm	Red = LOS (Loss of Signal)
LED Indicator, LAN	Dark = Link is down | Flickering Green: Active Data Passing | Solid Green: Link established
Link Security	AES-128 downstream
Provisioning and Monitoring	DPoE v2.0 Standards Based Operation
Transmission Standards	802.1 | 802.1p | DPoEv2.0 | IEEE 802.3av | SIEPON IEEE 1904.1

Dimensions

Height	30 mm | 1.181 in
Width	110 mm | 4.331 in
Length	150 mm | 5.906 in

Electrical Specifications

Electrical Interfaces	10G Port supports multi-rate operation 1G, 2.5G, 5G, and 10G | 1x10G Interface, 10GBase-T interface with RJ45 connector | 1x1G Interface, 10/100/1000Base-T interface with RJ45 connector
Power Consumption, typical	9.5 W
Power Supply	+12V feed via external AC/DC adapter

Optical Specifications

Optical Port Interface	SC/UPC
Optical Power	Downstream: 1577nm Rx wavelength (+/- 5 nm) | Input power: -10 dBm to -28.5 dBm @ 10-3 | Output power: +4 dBm to +9 dBm | Upstream: 1270nm Tx wavelength (+/- 10nm)

Environmental Specifications

Operating Temperature	-5 °C to +45 °C (+23 °F to +113 °F)
Relative Humidity	20%–80%, non-condensing
Standards Compliance	CE | FCC/ETL

Packaging and Weights

Weight, net	0.27 kg | 0.595 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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ROHS   Compliant
UK-ROHS   Compliant

ISO
9001:2015

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