

SF2101XG | 619566-002-00



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

PRELIMINARY SPECIFICATION

The CommScope FLX™ XGS-PON ONU Model SF2101XG is a G.9807.1 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 XGS-PON Optical Line Terminal (OLT) platforms. With OMCI provisioning support, the ONU is designed to support multi-vendor interoperability with other XGS-PON OLT vendor systems. The ONU requires minimal setup and configuration to enable operation and provides support for 10/10 Gb/s symmetric XGS-PON 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 SF2101XG :

- G.9807.1 compliant data only, bridge ONU for indoor commercial and residential services applications
- 10Gb/s Downstream and 10Gb/s Upstream XGS-PON interface
- Data services and service flows configurable with OMCI for OLT interoperability and PON Link Management
- Supports Triple Play services, VOIP, 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
- SC/APC (Green) Optical Interface

Ordering information: The Orderable Part Numbers are in Bold

ONU SF2101XG is offered in four kit configurations with regional power plug options. (US, UK, EU, AU)

- **620680-001-00**, includes: SF2101XG (619566-002-00), and US style plug (United States)
- **620680-002-00**, includes: SF2101XG (619566-002-00), and UK style plug (United Kingdom)
- **620680-003-00**, includes: SF2101XG (619566-002-00), and EU style plug (European Union)
- **620680-004-00**, includes: SF2101XG (619566-002-00), 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
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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	G.988 ONU management and control interface
Transmission Standards	802.1 802.1Q 802.1ad 802.3ad ITU-T G.987

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-APC
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
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Regulatory Compliance/Certifications

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

UK-ROHS

Compliant

