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
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

Regulatory Compliance/Certifications

Agency
- ISO 9001:2015
- ROHS

Classification
- Designed, manufactured and/or distributed under this quality management system
- Compliant
UK-ROHS Compliant