



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

## PRELIMINARY SPECIFICATION

The CommScope FLX™ XG-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, 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
- SC/APC (Green) Optical Interface

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Product Type</b>	PON ONU unit
<b>Product Brand</b>	CommScope FLX™

## General Specifications

<b>LED Indicator, PWR</b>	Dark = Power Off   Green = Power On
<b>LED Indicator, PON</b>	Dark = Not registered to OLT   Green = Registered to OLT
<b>LED Indicator, PON Alarm</b>	Red = LOS (Loss of Signal)

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<b>LED Indicator, LAN</b>	Dark = Link is down   Flickering Green: Active Data Passing   Solid Green: Link established
<b>Link Security</b>	AES-128 in both directions as defined by DPoE
<b>Provisioning and Monitoring</b>	G.988 ONU management and control interface
<b>Transmission Standards</b>	802.1   802.1Q   802.1ad   802.3ad   ITU-T G.987

## Dimensions

<b>Height</b>	30 mm   1.181 in
<b>Width</b>	110 mm   4.331 in
<b>Length</b>	150 mm   5.906 in

## Electrical Specifications

<b>Electrical Interfaces</b>	1x10G Interface, 10GBase-T interface with RJ45 connector   1x1G Interface, 10/100/1000Base-T interface with RJ45 connector
<b>Power Consumption, typical</b>	< 10 W
<b>Power Supply</b>	+12V feed via external AC/DC adapter

## Optical Specifications

<b>Optical Port Interface</b>	SC-APC
<b>Optical Power</b>	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

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

## Packaging and Weights

<b>Weight, net</b>	0.27 kg   0.595 lb
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## Regulatory Compliance/Certifications

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

