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

<table>
<thead>
<tr>
<th>Product Type</th>
<th>PON ONU unit</th>
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<tbody>
<tr>
<td>Product Brand</td>
<td>CommScope FLX™</td>
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</table>

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
- DPoE v2.0 Standards Based Operation

### Transmission Standards
- 802.1  |  802.1p  |  DPoEv2.0  |  IEEE 802.3av  |  SIEPON IEEE 1904.1

### Dimensions

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<tr>
<th></th>
<th>mm</th>
<th>inch</th>
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<tbody>
<tr>
<td><strong>Height</strong></td>
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<tr>
<td><strong>Width</strong></td>
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<tr>
<td><strong>Length</strong></td>
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<td>5.906</td>
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</table>

### 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

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>lb</th>
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<tbody>
<tr>
<td><strong>Weight, net</strong></td>
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<td>0.595</td>
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### Regulatory Compliance/Certifications

<table>
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<tr>
<th>Agency</th>
<th>Classification</th>
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<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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ROHS: Compliant
UK-ROHS: Compliant