

FXA530Z



The FXA530Z is an XGS-PON passive optical network (PON) data-only Optical Network Unit (ONU) for delivering up to 10Gbps symmetrical broadband services over fiber.

Requiring minimal setup and configuration to enable operation, it is designed for off-the-shelf 'plug and play' installation in indoor commercial and residential customer premises. OMCI provisioning for multi-vendor interoperability with ITU-T G.9807.1 compliant XGS-PON PON Optical Line Terminal (OLT).

The unit includes one 10Gbps auto-sensing 10GE port for connection to subscriber-side premises equipment. This flexibility enables customization of the two-box scenario on the gateway, supporting a range from 1GE up to 10GE. The ONU supports bridged mode operation, with standards and protocol support to enable numerous commercial services and premise demarcation applications.

Features At A Glance

- ITU-T G.9807.1 XGS-PON, data-only ONU/ONT, for indoor commercial and residential services applications
- Data services and service flows configurable with customizable OMCI for OLT interoperability and PON link management
- IPv6, IPv4 support
- Advanced Quality of Service features ensure optimal data services
- BBF.247 Certified
- One 10GE UNI LAN port
- Secure data transport with 128-bit AES encryption
- Integrated fiber management supports desktop or wall mount installation



Optical Interface

10G Downstream:

- 1577nm Rx wavelength (5 nm window)
- Optical input power: -8 dBm to -28 dBm

10G Upstream:

- 1270nm US Tx wavelength (+/- 7nm)
 - Optical output power: +4 dBm to +9 dBm
- SC/APC (Green) optical connector

LAN Interfaces	1x10G RJ45 connectors capable of 2.5G and 1G
Status LED	Front: Power, PON, LAN Rear: Ethernet Link/Speed
Interoperability	BBF.247 certified

Software Features

Bridging	DHCP, DNS, IPv6
Management	OMCI: ITU-T G.984.4, G.988 SSH

Physical Properties

Enclosure	Wall mount, fiber management
Dimensions	148mm W x 105mm D x 40,75mm H
Weight	0.5kg
Oper. Temperature	0 to 40°C
Oper. Relative Humidity	5-85% (non-condensing)
Storage Temperature	-40 to 70° C

Regulatory Compliance

EMC/EMI EMC/EMI: FCC 47 CFR 15, Sub Part B, Class B; ICES-003 Issue 6; VCCI Class B;

AS/NZS ISPR 32.2013 Class B ITEEN 55032: 2012 Radiated and Conducted Emission for ITE, EN 55035: 2017 Immunity for ITE 2014/30/EC Electromagnetic Compatibility (EMC) Directive

Safety EN60950, IEC/EN62368-1, CAN/UL62368-1, 2014/35/EU Low Voltage Directive

ENV Compliance RoHS, CofC EU 2015/863

Power

Power Input 12V DC nominal, 1 Amp

