



DATA SHEET

HX-XGS-5302

Indoor XGSPON SFU ONT



Features

- Standard ITU-T G.9807.1 XGSPON
- IEEE 802.3an, bz compliant LAN ports
- Triple-Play QoS
- Multicast video
- Small form-factor

Overview

DZS' indoor residential ONTs are designed to deliver a full range of advanced IP voice, data and video services over an all-optical broadband access network at an affordable price. The Model 5302 ONT provides many features in the smallest possible CPE package, including QoS and multicast video support.

The 5302 ONT features a 100M/1G/2.5/5/10Gbps and a 100M/1G/2.5Gbps auto-sensing LAN Ports in a stylish yet compact enclosure for indoor use. The 5302 ONT may be wall-mounted inside the home or placed free-standing on a desktop.

The 5302 ONT is ideal for FTTH or small business deployments in bridging-only applications where high-speed data must be transported reliably. The 5302 ONT also operates well in conjunction with separate RG devices such as routers and WiFi access points to provide flexible triple-play configurations.

This ONT model includes an On/Off switch conveniently located near the DC power connector. Dying-Gasp support alerts the network operator of removal of power, helpful for problem identification in areas served by the public.

Compliant with standard OMCI definitions, the 5302 ONT is manageable at remote sites and supports the full range FCAPS functions including supervision, monitoring and maintenance.

DZS provides the complete PON solution: ONTs, OLTs, optical splitters, BBUs, EDFAs, RF Transmitters, cabinet solutions and management systems are available from DZS allowing our customers to buy a complete and fully tested solution from one trusted source.



Specifications

DIMENSIONS

- 30 mm H x 135 mm W x 110 mm D

WEIGHT

- 220 g.

POWER

- 12VDC, 1.0A max
- PSU: 100-240VAC, 50/60Hz, 12VDC, 12W out
- Round barrel-type connector for power input

OPERATING REQUIREMENTS

- Operating Temperature: 0C to +40C
- Storage Temperature: -40C to +85C
- Relative Humidity: 10 to 95%, non-condensing

INTERFACES

Network Interface

- SC/APC fiber receptacle
- XGSPON: ITU-T G.9807.1-compliant. 10/10Gbps 1270nm burst-mode transmitter and 1577nm continues-mode receiver.

LAN Ports

- One 100/1000/2.5G/5G/10GBase-T LAN port
- One 100/1000/2.5GBase-T LAN port
- RJ-45 connectors
- Auto-MDI-X crossover control
- Auto-Speed or manual selection

LAYER 2 BRIDGING

MAC

- Ethernet frame filtering based on port, SA/DA
- IEEE 802.3as, Max MTU size 2000 bytes
- MAC address limiting

VLAN

- IEEE 802.1d bridging
- Ingress/egress IEEE 802.1p tagging, replacement, and striping
- IEEE 802.1ad double tagging
- Traffic class forwarding to GEM port and TCONT

QOS

- QoS on first 4 ports
- QoS based on 802.1p and 802.1q
- 802.1p marking based on DSCP

MULTICAST

- IGMP v2, v3, IGMP snooping

OAM

MANAGEMENT

- OMCI, CLI, Telnet

FIRMWARE

- Firmware upgrade, active and alternate images

DIAGNOSTICS

- Enhanced PON debug and diagnostics functions
- Remote debug via telnet from OLT
- Log files, memory allocation, and crash check
- Alarm report and suppression (ARC)
- All standard PM counters
- LED indicators and configurable LED hold time

Specifications (cont)

PROTOCOL SUPPORT

PON:

- Fully ITU-T G.9807.1, G.987, and G.984 compliant framing
- Ranging and activation process
- D/U 128-AES Encryption and key exchange
- D/U FEC, RS (248, 216)
- 32 T-CONTs per device
- 32 GEM Ports per device
- Support for Multicast GEM Port
- Downstream dedicated independent queues for PLOAM and CPU packets.
- Upstream normal queues for PLOAM and CPU packets.
- Dying Gasp support

Ethernet:

- IEEE 802.3an 10GBase-T
- IEEE 802.3bz 2.5GBase-T
- IEEE 802.3ab 1000Base-T
- IEEE 802.3u 100Base-T
- IEEE 802.3az EEE
- IEEE 802.1p/q VLANs

REGULATORY COMPLIANCE

EMC:

- FCC Part 15 Class B
- ICES-003 Class B
- EN55022 Class B
- EN55024

Safety:

- UL60950-1
- CSA C22.2 No. 60950-1
- EN60950-1

Environmental:

- RoHS

Ordering Information

MODEL	DESCRIPTION
HX-XGS-5302-xx	Indoor L2 SFU ONT, GPON, 2.5G LAN xx = 00, EU, NA, UK power supply options