

WAG-D20 Series XGS-PON SFU

Product Specification

Ver. 1.0

October 2020

Summary

The WAG-D20 Series XGSPON ONT is best suited for FTTH residential applications. Its family of ONTs provide customers with one 10GE Ethernet port and/or one 2.5G Ethernet port. The 2.5GE port can be downgraded to 1GE port to reduce cost. Additionally, the WAG-D10T model can support IEEE1588v2, Y.1731 and Sync-E for mobile backhaul application. The hardware is Layer-3 capable.

Highlights

- ITU-T G.9807.1 XGSPON SFF/BoB Uplink
- 1x 100/1000/2.5G/5G/10GBASE-T IEEE 802.3ab/bz/an Ethernet RJ45 ports (Optional)
- 1x 10/100/1000/2.5GBASE-T IEEE 802.3ab/bz Ethernet RJ45 ports
- Optionally supports IEEE1588v2, Y.1731 and Sync-E
- Wall adaptor
- 0 to 40°C operating temperature

Specifications

General

Solution Model/Series	WAG-D20 Series
ONT Type	XGS-PON SFU
SoC	Intel PRX321/PRX120
Uplink	XGSPON (Alternatively 10GEPON and XGPON1)
Downlinks	1x 10GE, 1x 2.5GE (or 1x GE)
Operating Temperature	0 to 40°C
Storage Temperature	-40 to 85°C
Operating Humidity	10% to 95%, non-condensing
Installation	Desktop
Regulatory	ETL; FCC; CE; CB
Dimensions	145 x 110 x 30mm; 220g

XGS-PON

PON Interface	ITU-T G.9807.1 SFF or BoB
Connector	SC/APC
Data Rate	Symmetrical Tx: 9.95328Gbps; Rx: 9.95328Gbps
Standard Compliance	ITU-T G.9807.1

GE LAN

Ethernet Interface	RJ45 connectors
Standard Compliance	IEEE 802.3, 802.3u, 802.3ab
Link	Half-duplex and full-duplex operations; 10/100/1000 BaseT auto-negotiation and manual configuration; MDI/MDIX auto detection

2.5GE LAN

Ethernet Interface	RJ45 connectors
Standard Compliance	IEEE 802.3, 802.3u, 802.3ab
Link	Half-duplex and full-duplex operations; 10/100/1000/2.5G BaseT auto-negotiation and manual configuration; MDI/MDIX auto detection

10G LAN

Ethernet Interface	RJ45 connector
Standard Compliance	IEEE 802.3u, 802.3ab, 802.3bz, 802.3an
Link	100M/1000M/2.5G/5G/10GBaseT auto-negotiation and manual configuration; Half-duplex and full-duplex operations for 100/1000BaseT; MDI/MDIX auto detection for 100/1000BaseT

Layer 2 Bridging

MAC	Ethernet frame filtering based on port, SA/DA IEEE 802.3as, Max MTU size 2000bytes 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 GEMPort and TCONT
QoS	QoS based on 802.1p and 802.1q 802.1p marking based on DSCP
Multicast	IGMP v2, v3, IGMP snooping

OAM

LEDs	Power, PON, LOS, 10GE, 2.5GE
Management	OMCI, CLI, Telnet
Firmware Upgrade	Firmware upgrade, active and alternative firmware images
Diagnostics	Enhanced GPON debug and diagnostic functions Remote debug via telnet from OLT Log files, memory allocation and crash check
Alarm	Alarm report and suppression (ARC)
PM	All standard PM counters

Power

Max Power Consumption	10 watts
Power Options	Wall adapter
Wall Adapter/BBU	100-240VAC in, 50/60Hz 12VDC out, 1 max

Shipping

Shipping Size	260*160*80mm
Shipping Weight	490g
Shipping Carton Size	340*420*290mm (10 products per carton)
Shipping Carton Weight	5.4kg

Product Photos



Ordering Information

Model	Description
C1-WAG-D20	XGS Uplink, 10GE and 2.5GE LAN ports (PRX321)
C1-WAG-D21	XGS Uplink, 2.5GE LAN port (PRX120)



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