

**WAG-D20 Series XGSPON SFU  
Product Specification**

**Ver. 0.6**

**March 2020**

AZORES CONFIDENTIAL AND PRELIMINARY

### Revision History

Rev	Date	ECO	Change Log
0.1	7/16/2019		Initial Revision
0.2	8/3/2019		Change Product Pictures
0.3	11/23/2019		Create Orderable Models
0.4	12/19/2019		Add power, shipping info and more models
0.5	02/02/2020		Remove D20T model
0.6	03/01/2020		Add D10T model

## ■ Summary

Azores Networks' 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. Optionally, 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

Azores Model	WAG-D20 Series
ONT Type	XGS PON SFU
Main 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
Dimensions	145X110X30mm
Net Weight	220g
Regulatory (Agency)	ETL (ETA Feb.2020) UL 62368-1:2014 Ed. 2 CSA C22.2#62368-1:2014 Ed. 2 FCC (ETA Feb.2020) FCC Part 15 Subpart B (Shenzhen STS) CE (ETA Feb.2020) EMC (Shenzhen STS) Safety (Shenzhen STS) CB (ETA Feb.2020) IEC 62368-1:2014 Ed. 2

### 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

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## ■ Order Information

Model	Description
WAG-D20	XGS Uplink, 10GE and 2.5GE LAN ports (PRX321)
WAG-D22	XGS Uplink, 1GE LAN port (PRX120)
WAG-D10	XGS Uplink, 10GE LAN port (PRX321)
WAG-D21	XGS Uplink, 2.5GE LAN port (PRX120)
WAG-D10T	XGS Uplink, 10GE LAN port, IEEE1588v2, Sync-E, Y.1731 support (PRX321)

## ■ Product Photos

### ❖ Front View



### ❖ Behind View





## ■ Contact

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