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DATASHEET



WAG-D20P

XGSPON PoE SFU

Azores Networks' WAG-D20P XGSPON

PoE ONT is best suited for Passive Optical LAN applications. It provides customers with one 10GE Ethernet port and one 2.5G Ethernet port. Both Ethernet ports are capable of 802.3bt 60W PoE Output. The hardware is Layer-3 capable.



Highlights

- ITU-T G.9807.1 XGSPON SFF/ Uplink
- 1x 100/1000/2.5G/5G/10GBASE-T IEEE 802.3ab/bz/an Ethernet RJ45 ports
- 1x 10/100/1000/2.5GBASE-T IEEE 802.3ab/bz Ethernet RJ45 ports
- Optionally supports IEEE1588v2, Y.1731 and Sync-E
- 60W PoE on both ports : 802.3af, 802.3at and 802.3bt
- Wall adaptor, and BBU Powering Options
- -40 to 60°C operating temperature

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Technical Specifications

General	
Azores Model	WAG-D20P
ONT Type	XGS PON PoE SFU
Main SoC	Intel PRX321
Uplink	XGSPON
Downlinks	1x 10GE, 1x 2.5GE
Operating Temperature	-40 to 60°C
Storage Temperature	-40 to 85°C
Operating Humidity	10% to 90%, non-condensing
Installation	Desktop, Wall-mount, Din Rail Mount
Dimensions	176mm x 130mm x 35mm
Net Weight	350g
Regulatory (Agency)	ETL, FCC

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

2.5GE LAN	
Ethernet Interface	RJ45 connector
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/10G BaseT 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

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Technical Specifications

OAM	
LEDs	Power, XGS PON, MG1, MG2
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	
Power Options	Wall adapter, BBU
Wall Adapter/BBU	100-240VAC in, 50/60Hz 54VDC out, 150 max



PoE	
Standard Compliance	IEEE 802.3at Types 1 and 2, 802.3af, 802.3bt
Power Output	60W for both ports
PSE Channels	16 independent PSE Channels
Sense Resistance	0.25Ω sense resistance per channel
Power Device	Automatic detection of Power Type and Status Power Priority Management; support legacy power device and LLDP power device



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