

**WAC-150A XGSPON ONT**  
**Product Specification**

**Ver. 0.2**

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AZORES CONFIDENTIAL AND PRELIMINARY



## ■ Summary

Azores Networks' WAC-150A XGSPON ONT is best suited for FTTH residential and optical LAN applications. It provides customers 4 Gigabit Ethernet data and 1 10G Ethernet data ports. The hardware is Layer-3 capable.

## ■ Highlights

- ❖ Pluggable SFP+ or soldered on SFF XGS PON uplink
- ❖ 4x 10/100/1000BASE-T Ethernet RJ45 ports
- ❖ 1x 100/1000/2.5G/5G/10GBASE-T Ethernet RJ45 port
- ❖ Wall adaptor
- ❖ 0 to 40°C operating temperature

## ■ Specifications

### General

Azores Model	WAC-150A
ONT Type	XGSGPON ONT
Main SoC	BCM68580X
Uplink	XGSPON
Downlinks	4x GE, 1x10GE
Operating Temperature	0 to 40°C
Storage Temperature	-40 to 85°C
Operating Humidity	10% to 95%, non-condensing
Installation	Desktop
Dimensions	160*220*34mm
Net Weight	300g
Regulatory (Agency)	<p>ETL            UL 62368-1:2014 Ed. 2 (Intertek)            CSA C22.2#62368-1:2014 Ed. 2 (Intertek)</p> <p>FCC            FCC Part 15 Subpart B (Shenzhen STS)</p> <p>CE            EMC (Shenzhen STS)            EN 55032:2015            EN 61000-3-2:2014            EN 61000-3-3:2013            EN 61000-4-2:2009            EN 61000-4-3:2006+A1:2008+A2:2010            EN 61000-4-4:2012            EN 61000-4-5:2014/A1:2017            EN 61000-4-6:2013            EN 61000-4-11:2014/A1:2017            EN 55035:2017            ETSI EN 300386 V2.1.1 2016-07</p> <p>Safety (Shenzhen STS)            EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013            IEC 60950-1:2005+A1:2009+A2:2013</p> <p>CB            IEC 62368-1:2014 Ed. 2 (Intertek)</p>

## XGS PON

PON Interface	SFP+ cage for pluggable optical module or soldered on SFF
Connector	SC/APC
Data Rate	Symmetrical Tx: 9.95328Gbps; Rx: 9.95328Gbps
Standard Compliance	ITU-T G.9807.1

## GE LAN

Ethernet Interface	4x RJ45 connectors
Standard Compliance	IEEE 802.3, 802.3u, 802.3ab
Link	Half-duplex and full-duplex operations; 10/100/1000BaseT 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 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

LED	LED indications and configurable LED hold time
Management	OMCI, CLI, Telnet
Firmware Upgrade	Firmware upgrade, active and alternative firmware images
Diagnostics	Enhanced XGSPON 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	15 watts
Power Options	Wall adapter
Wall Adapter	Standard Barrel Connector 100-240VAC in, 50/60Hz 12VDC out, 2A max

## Shipping

Shipping size	260*230*80mm
Shipping Weight	590g
Shipping carton size	480*420*290mm (10 products per carton)
Shipping carton weight	6.4Kg

## ■ Product Photos

### ❖ Front View



### ❖ Back View



## ■ Contact

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