

# WAC-150 XGS-PON ONT

# **Product Specification**

Ver. 1.0

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# **Summary**

The WAC-150 XGS-PON ONT is best suited for Optical LAN Enterprise network and FTTH residential applications. It provides customers 4 Gigabit Ethernet data and 1 10G Ethernet data along with Power over Ethernet (PoE) services. The hardware is Layer-3 capable.

# Highlights

- ❖ ITU G.984 Pluggable SFP+ cage allows following types of PON uplink
  - o Asymmetrical 10GEPON (10G/1G)
  - o Symmetrical 10GEPON (10G/10G)
  - o XGPON1
  - XGSPON
  - o NGPON2
- ❖ 4x 10/100/1000BASE-T Ethernet RJ45 ports with PoE up to 60W per port
- ❖ 1x 100/1000/2.5G/5G/10GBASE-T Ethernet RJ45 ports with PoE up to 60W per port
- ❖ 60W PoE on GE1, GE2 and 10GE ports: 802.3af, 802.3at and 802.3bt
- ❖ 30W PoE on GE3 and GE4 ports: 802.3af and 802.3at
- Wall adaptor, and BBU Powering Options
- O to 40°C operating temperature



# **Specifications**

### General

BFW Solutions Model WAC-150

ONT Type PoE 10GPON ONT

Main SoC BCM68580X

Uplink 10GEPON, XGPON1, XGSPON, NGPON2

Downlinks 4x GE, 1x10GE

Operating Temperature 0 to 40°C

Operating Humidity 10% to 95%, non-condensing

Dimensions 160X220X34mm

Installation Desktop

Weight 300g

Regulatory ETL, CE and FCC

### 10G PON

PON Interface SFP+ cage for pluggable optical module

#### **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

Link

Ethernet Interface RJ45 connector

Standard Compliance IEEE 802.3u, 802.3ab, 802.3bz, 802.3an

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



#### PoE

Standard Compliance IEEE 802.3at Types 1 and 2, 802.3af, 802.3bt (pre-standard)

Power Output GE1, GE2 and 10GE capable of 60W, GE3 and GE4 capable of

30W

PSE Channels 16 independent PSE Channels

Sense Resistance  $0.25\Omega$  sense resistance per channel

Power Device Automatic detection of Power Type and Status Power

Priority Management; support legacy power device and

LLDP power

device

### 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 on first 4 ports

QoS based on 802.1p and 802.1g 802.1p marking based

on DSCP

Multicast IGMP v2, v3, IGMP snooping

### **OAM**

LED indications and configurable LED hold time

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 report and suppression (ARC)

PM All standard PM counters



## Power

Power Options	Wall adapter, UPS/BBU and PoE Input
Wall Adapter/BBU	2x4 Molex connector
	100-240VAC in, 50/60Hz
	54VDC out, 2.78A max
	4 alarms (on battery, battery failure, battery missing, battery
	low)
Phoenix	2-pin Phoenix connector
	54VDC out, 2.78A max



# Product Photos

### Front View



### Rear View





# Contact

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