

Features:

- Compliant with:
 - ITU-T G.9807.1 and G.988 specifications (XGS), and
 - IEEE802.3av, IEEE1904.1 (Package A), and DPoE specifications (EPON)
- Integrated ITU-T G.9807.1-compliant 10G XGS MAC and IEEE 802.3av-compliant 10G EPON MAC
- Integrated 10G XGS/EPON SerDes and NNI 10G SerDes
- Supports symmetric data rates:
 - 9.95328G/9.95328G (XGS mode), or
 - 10.3125G/10.3125G (EPON mode)
- Supports PON type auto-sensing: Auto-PONTM (XGS or EPON)
- Supports:
 - OMCC and 7 additional AllocIDs with 8 bidirectional XGEM ports and 8 downstream-only XGEM ports (XGS mode)
 - 10G-EPON Mode: 8 Bidirectional LLIDs and 8 downstream-only LLIDs (EPON mode)
- Supports bidirectional Forward Error Correction compliant with the PON standard
- In-band management via ITU-T G.988 OMCI messages (XGS mode)
- In-band management via Ethernet OAM (EPON mode)
- IEEE AES-128 encryption on PON side (EPON mode)
- G.9807.1 AES-128 encryption on PON side (XGS mode)
- Supports IEEE802.1ae MacSec encryption on the Ethernet side
- Supports IEEE1588.2, IEEE802.1as.1 and 1PPS and TOD transport for wireless backhaul applications
- Supports Synchronous Ethernet
- Jumbo frame support up to: 9.6KB (XGS), or 12.5KB (EPON)



Solutions:

- Single PON Port: 10G/10G (XGS-PON or EPON)
- Single UNI Port: 100M/1000M/2.5G/5G/10G Base-T Ethernet Auto-negotiation
- SoC: Tibit PON Bridge ASIC
- PHY: AQR113C
- SFU

1. Optical Features

- 9.95328/10.3125Gbps downstream, 9.95328/10.3125Gbps upstream for XGS-PON/10G EPON
- Optical wavelengths: 1575nm to 1580nm receive, 1260nm to 1280nm transmit
- Launch Optical Power: 4.0dBm to 9.0dBm
- Receiver Sensitivity: -28.5dBm
- Optical Input Overload: -7dBm
- N2/PR30 DFB LD
- Connector: SC/APC

2. Ethernet Features:

- One 100/1000/2.5G/5G/10G Base-T interface with RJ-45 connector
- Meets IEEE802.3, IEEE802.3u, IEEE802.3ab specifications
- MDI/MDIX auto-sensing and auto-negotiation

3. Dimensions

- 95mm x 113mm x 29mm (ONT)
- 80mm x 100mm (PCB)

4. Power Supply

- Output: 12V/1A, Input AC 110-240V, 50/60Hz
- Dying Gasp support
- Power Consumption: < 6W

5. Working Environment

- Temperature: -5°C to 45°C ambient air
- Humidity: 0% to 90% (non-condensing) relative humidity

6. Installation

- Desktop mounting
- Wall mounting

7. LEDs

LED	Color	State	Indication
POWER	GREEN	OFF	ONT power OFF
		ON	ONT power ON
PON	GREEN	OFF	ONT not registered
		ON	ONT registered
LOS	RED	OFF	Optical signal detected
		ON	No optical signal detected
ALARM	RED	ON	Detected alarm condition
LAN	GREEN	ON	100M/1G link
	BLUE	ON	2.5G/5G/10G link

7. Enclosure



8. Power Adapter



9. Packaging Information

Unit Net weight	160g
Unit Gross weight	345g
Gift box dimension	192(L)mm x 188(W)mm x 57(H) mm
Carton dimension (20pcs)	600(L)mm x 400(W)mm x 230(H) mm



10. Contact Information

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