ARCDATA
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ARC DATA 10G PON XGS-PON / XG-PON SFU ONU

10-Gigabit fibre termination for next-generation FTTH

A high-performance 10G PON ONU supporting XGS-PON or XG-PON, with a 10GE high-speed port plus a Gigabit port — the headroom for 4K/8K, VR and 10G ultra-high-speed Internet, with IPv4/IPv6 dual stack.





REAR: POWER, RESET, 1× GE, 1× 10GE, PON

10G PON	10GE+GE	IPv4/IPv6	20 km
XGS / XG-PON	USER PORTS	DUAL STACK	REACH

OVERVIEW

The ARC-ONU-X is a high-performance 10G PON optical network unit supporting both XGS-PON and XG-PON (selectable). With a 10GE high-speed port plus a Gigabit port, it delivers the headroom for 4K/8K streaming, VR and 10G ultra-high-speed Internet. As a clean data SFU (no Wi-Fi), it lets operators pair their own gateway while the ONU handles 10G optical termination; its tray-mounted fibre structure routes and stores the drop fibre tidily for neat desktop or wall-mount installation, with full OMCI/Web/Telnet/SSH and centralised management via the ARC VISION Cloud Platform.

FEATURES

10G PON
XGS-PON (G.9807.1) or XG-PON (G.987), selectable.

IPv4/IPv6 Dual Stack
DHCP client/server, PPPoE, NAT, DMZ; bridge & router.

Carrier-Grade Security
Anti-DDoS firewall (IP/port/ACL/MAC/URL), dying-gasp.

10GE + GE Ports
1× 10GE + 1× GE auto-negotiation RJ45.

Data SFU
No Wi-Fi — pair with any operator router/gateway.

Tray-Mounted Fibre
Tidy desktop or wall-mount install.

TECHNICAL SPECIFICATIONS

INTERFACES	
User Ports	1 × 10GE + 1 × GE (auto-negotiation, RJ45)
PON Port	1 × 10G PON — XGS-PON (ITU-T G.9807.1) / XG-PON (ITU-T G.987)
Connector	SC/UPC, single mode
Indicators	SYS, PON, LOS, LAN1, LAN2

OPTICAL	
TX Optical Power	6 dBm (XGS-PON) / 5 dBm (XG-PON)
RX Sensitivity	-28 dBm
Overload Optical Power	-8 dBm

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Wavelength	XG(S)-PON: DS 1577 nm / US 1270 nm
Transmission Distance	20 km

SOFTWARE

Internet Connection	Bridge / Router mode
Layer 2	802.1p CoS, 802.1Q VLAN; tag / transparent / trunk / hybrid
Layer 3	IPv4 / IPv6 dual stack, DHCP Client/Server, PPPoE, NAT, DMZ
Multicast	IGMP v1/v2/v3 snooping, MLD v1/v2 snooping
QoS	WRR, SP+WRR
Security	Anti-DDoS, IP/port filtering, ACL/MAC/URL, dying-gasp, loop/Eth-loss alarms
Management	OMCI, Web, Telnet, SSH; centrally managed via the ARC VISION Cloud Platform

PHYSICAL & POWER

Dimensions (L×W×H)	140 × 140 × 36.5 mm
Weight	316 g
Power Adapter	DC 12V / 1A
Power Consumption	12 W
Operating Temperature	-10 °C ~ +55 °C, 5–95% non-condensing
Storage Temperature	-40 °C ~ +70 °C, 5–95% non-condensing

COMPLIANCE & ORDERING

- **ITU-T G.9807.1** (XGS-PON), **ITU-T G.987** (XG-PON); **RCM** (AS/NZS CISPR 32 + AS/NZS 62368-1) and **RoHS**.

ARC Order Code	ARC-ONU-X
Product	ARC DATA 10G PON SFU ONU — XGS-PON or XG-PON, 1× 10GE + 1× GE
In the Box	1 × ONU, DC 12V/1A power adapter, wall-mount accessories