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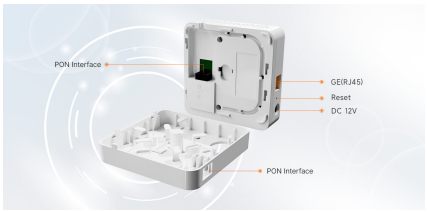
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# ARC DATA 1GE GPON/EPON ONU

**Compact dual-mode data ONU for FTTH, FTTO & FTTD**

**A single-port Gigabit ONU that auto-connects to GPON or EPON networks — a clean, data-only optical termination with a built-in fiber tray for neat wall-mount installation.**






INTERFACES: PON, GE (RJ45), RESET, DC 12V

| 1 GE | Dual-Mode | 20 km | ≤4 W |
|---|---|---|---|
| ETHERNET | GPON / EPON | REACH | POWER |

## OVERVIEW

The ARC-ONU-1G is a compact, carrier-grade optical network unit for fibre-to-the-home, office and desktop access. Its dual-mode XPON port auto-detects and connects to either GPON or EPON OLTs, while a single Gigabit Ethernet port delivers full-rate broadband to a router, switch, IP camera or set-top box. Designed as a clean data-only SFU (no Wi-Fi), it lets operators pair their own gateway while the ONU handles the optical termination — with rogue-ONU prevention, a hardware firewall and dying-gasp for carrier-grade reliability.

## FEATURES

**Dual-Mode XPON**
Auto-access to GPON (Class B+) or EPON (PX20+) OLTs.

**Gigabit Ethernet**
1× GE RJ45, auto-negotiation, full-rate broadband.

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

**Built-in Fiber Tray**
Integrated fiber management for neat wall-mount installs.

**Carrier-Grade Security**
Rogue-ONU prevention, hardware firewall, dying-gasp.

**Full Remote Management**
OMCI (ITU-T G.984.x), Web, Telnet, CLI, CTC OAM 2.0/2.1.

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **INTERFACES** | |
| **LAN Port** | 1 × GE (RJ45, auto-negotiation) |
| **PON Port** | 1 × XPON — EPON PX20+ & GPON Class B+ (dual-mode) |
| **Connector** | SC/UPC, single mode |
| **OPTICAL** | |
| **TX Optical Power** | 0 ~ +4 dBm (1310 nm) |
| **RX Sensitivity** | -27 dBm (1490 nm) |
| **Overload Optical Power** | -3 dBm (EPON) / -8 dBm (GPON) |
| **Transmission Distance** | 20 km |

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### SOFTWARE

| | |
|---|---|
| **VLAN** | Tag / transparent / trunk (up to 8 VLANs) |
| **QoS** | 4 queues, 802.1P priority |
| **Multicast** | IGMP; up to 8 multicast VLANs / 64 groups |
| **Management** | OMCI (ITU-T G.984.x), Web, Telnet, CLI, CTC OAM 2.0/2.1; centrally managed via the ARC VISION Cloud Platform |
| **Security** | Rogue-ONU prevention, hardware firewall, dying-gasp |

### PHYSICAL & POWER

| | |
|---|---|
| **Dimensions (L×W×H)** | 91 × 91 × 41 mm |
| **Weight** | 170 g |
| **Power Adapter** | DC 12V / 0.5A |
| **Power Consumption** | ≤ 4 W |
| **Operating Temperature** | -10 °C ~ +55 °C, 5–95% non-condensing |
| **Storage Temperature** | -40 °C ~ +70 °C |

### COMPLIANCE & ORDERING

- **ITU-T G.984.x** (GPON) and **IEEE 802.3ah** (EPON) compliant; **RCM** (AS/NZS CISPR 32 + AS/NZS 62368-1) and **RoHS**.

| | |
|---|---|
| **ARC Order Code** | ARC-ONU-1G |
| **Product** | ARC DATA 1GE GPON/EPON Dual-Mode ONU |
| **In the Box** | 1 × ONU, DC 12V power adapter, wall-mount bracket |