ARCDATA
CONNECTING YOUR BUSINESS FORWARD

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ARC DATA XPON Stick ONU (SFP)

Turn any router or switch SFP port into a GPON/EPON fibre ONU

A high-performance XPON Stick ONU in an SFP form factor — plug it straight into an SFP port and it becomes a complete fibre ONU, with the MAC built in. Auto-adaptive GPON/EPON, config-free and plug-and-play.



SFP Stick	GPON/EPON	Class B+	20 km
FORM FACTOR	AUTO-ADAPTIVE	PX20+	REACH

OVERVIEW

The ARC-ONU-STICK-G is a high-performance XPON Stick ONU in an SFP form factor — plug it directly into the SFP port of a router, switch or gateway and it becomes a complete fibre ONU, MAC included. A 1310 nm burst-mode transmitter and 1490 nm continuous-mode receiver deliver GPON ONU Class B+ performance over a single fibre. Built on mature Gigabit GPON/EPON technology, it auto-detects EPON or GPON and is config-free, plug-and-play — no separate ONU box, power adapter or setup. Connects with all mainstream OLTs; compliant with ITU-T G.984.x and IEEE 802.3ah.

FEATURES

SFP Stick Form Factor
Plug into any router/switch SFP port — no separate ONU or PSU.

Config-Free Plug & Play
MAC inside; works with mainstream OLTs out of the box.

SFU Bridging
802.1D/802.1ad bridging, 802.1p CoS, PPPoE & IGMP v2/v3 forwarding.

XPON Auto-Adaptive
Detects and connects to EPON or GPON automatically.

GPON Class B+
PX20+, 1310/1490 nm, 20 km reach.

Standards Compliant
ITU-T G.984.x, IEEE 802.3ah, China CTC 3.0; dying-gasp.

TECHNICAL SPECIFICATIONS

INTERFACES	
Form Factor	SFP stick ONU (20-pin SFP, MAC inside)
PON Port	1 × XPON — auto-adaptive EPON / GPON (Class B+ / PX20+)
LAN Interface	1 × GE Ethernet via SFP host connector
Optical Connector	SC/UPC, single mode
OPTICAL	
TX Optical Power	0 ~ +4 dBm
RX Sensitivity	< -28 dBm

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Wavelength	TX 1310 nm (burst) / RX 1490 nm (continuous)
Transmission Distance	20 km

SOFTWARE

Mode	SFU ONU bridging; connects with mainstream OLTs
Layer 2	802.1D & 802.1ad bridging, 802.1p CoS
Layer 3	IPv4, PPPoE forwarding
Multicast	IGMP v2/v3 forwarding
Standards	IEEE 802.3ah, ITU-T G.984.x, China CTC 3.0
Management	OMCI-managed via the host OLT; centrally managed by the ARC VISION Cloud Platform

PHYSICAL & POWER

Dimensions (H×W×D)	14.1 × 79 × 13.6 mm
Weight	35 g
Power Supply	DC 3.3V (from SFP host)
Power Consumption	≤ 4 W
Operating Temperature	0 °C ~ 50 °C, 10–90% non-condensing
Storage Temperature	-30 °C ~ 60 °C, 10–90% non-condensing

COMPLIANCE & ORDERING

- **ITU-T G.984.x** (GPON), **IEEE 802.3ah** (EPON), China CTC 3.0; **RCM** (AS/NZS CISPR 32 + AS/NZS 62368-1) and **RoHS**.

ARC Order Code	ARC-ONU-STICK-G
Product	ARC DATA XPON (GPON/EPON) Stick ONU, 1× GE (SFP)
In the Box	1 × SFP stick ONU module