

G(E)PON MDU WITH POE+ · FIBERTRIX SERIES

FiberTrix-8

1× XPON (GPON / EPON) · 8× GE PoE+ · 54 V DC adapter



1× XPON
GPON / EPON

8× GE
POE+ PORTS

30 W
MAX. POE PER PORT

≤130 W
POWER SUPPLY

20 km
TRANSMISSION DISTANCE

01 OVERVIEW

The UGRID FiberTrix-8 is a compact PON MDU for telecom operators delivering FTTO (office), FTTD (desktop), FTTH (home), SOHO and video-surveillance access. Its XPON port works in dual mode — GPON or EPON — and connects to mainstream EPON and GPON OLTs, in line with ITU-T G.984 and IEEE 802.3ah. All eight Gigabit Ethernet ports supply IEEE 802.3af/at PoE+ at up to 30 W per port to power IP cameras, wireless APs and IP phones over the network cable. DDoS protection, ACL / MAC / URL filtering and QoS keep data services reliable, with management over Web, Telnet or CLI and power from an external 54 V DC adapter.

FTTO & FTTD

Fiber to the office and desktop: one PON drop serves eight Gigabit ports at the workspace.

FTTH & SOHO

Home and small-office access over GPON or EPON, working with mainstream EPON and GPON OLTs.

PoE cameras & APs

Every port supplies PoE+ up to 30 W to power IP cameras, wireless APs and IP phones.

DEPLOYMENT SCENARIOS

FTTO

FTTD

FTTH

SOHO

Video surveillance

Wireless APs

02 KEY FEATURES

✓ EPON / GPON dual mode

One XPON port (GPON Class B+ / EPON PX20+) adapts to mainstream EPON and GPON OLTs.

✓ Security & QoS

DDoS protection, ACL / MAC / URL filtering and unauthorized ONU detection; 4 queues with SP / WRR and 802.1p.

✓ 8× GE PoE+

Eight Gigabit RJ45 ports with IEEE 802.3af/at PoE+, up to 30 W per port, from a 54 V DC adapter.

✓ Simple management

Web, Telnet and CLI with OMCI; automatic detection, configuration and firmware upgrade; dying-gasp alarm.

03 TYPICAL APPLICATION

The FiberTrix-8 connects to a mainstream EPON or GPON OLT through a passive optical splitter and delivers Gigabit Ethernet with PoE+ to IP phones, IP cameras and wireless APs, and Ethernet to devices without PoE.

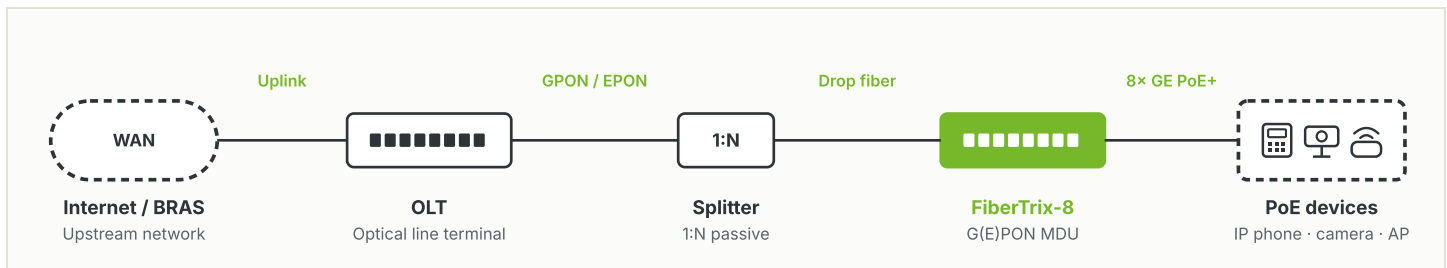


Figure 1 — FiberTrix-8 in an EPON / GPON access network (FiberTrix-8 highlighted).

04 HARDWARE SPECIFICATIONS

INTERFACES

PON port	1× XPON, dual mode: GPON Class B+ / EPON PX20+
User ports	8× GE RJ45, auto-negotiation, PoE / PoE+
Indicators	Power, PON, LOS, SYS, LAN1-8

PON INTERFACE

Connector / fiber	SC/UPC, single-mode
Wavelength	TX 1310 nm, RX 1490 nm
TX optical power	0 to +4 dBm
RX sensitivity	-27 dBm
Overload optical power	-8 dBm (GPON); -3 dBm (EPON)
Transmission distance	20 km

POWER & POE

Power adapter	54 V DC / 2.4 A, external AC-DC adapter
Power supply	≤ 130 W
PoE standard	IEEE 802.3af / 802.3at (PoE / PoE+), all 8 GE ports
Max. PoE per port	30 W

PHYSICAL & ENVIRONMENTAL

Dimensions (L × W × H)	205 × 125 × 28 mm
Net weight	0.615 kg
Operating environment	-10 °C to +55 °C; 10%–90% RH, non-condensing
Storage environment	-30 °C to +70 °C; 10%–90% RH, non-condensing

05 SOFTWARE FEATURES

PON • XPON dual mode: GPON / EPON • Works with mainstream EPON and GPON OLTs • Compliant with ITU-T G.984 and IEEE 802.3ah • MPCP discovery and registration • MAC / LOID / MAC+LOID authentication • SN / PSW / LOID / LOID+PSW authentication • Triple churning • DBA • Automatic detection, configuration and firmware upgrade	LAN • Port rate limiting • Loop detection • Flow control • Storm control • PoE / PoE+, IEEE 802.3af/at, up to 30 W per port	QoS • 4 queues • SP and WRR scheduling • IEEE 802.1p
Management • Web • Telnet • CLI • OMCI	VLAN • VLAN tag mode • VLAN transparent mode • VLAN trunk mode (up to 8 VLANs)	Security • DDoS protection • Filtering based on ACL, MAC and URL • Unauthorized ONU detection
	Multicast • IGMP v1/v2, IGMP snooping • Up to 8 multicast VLANs • Up to 64 multicast groups	Alarm • Dying gasp • Port loop detection • Ethernet port loss

06 ORDERING INFORMATION

SELECTED CONFIGURATION · MODEL NUMBER KEY	
FiberTrix	— G — PSW — 8
FiberTrix series	XPON (GPON / EPON) PoE+ MDU 8× GE PoE+ ports
PART NO.	DESCRIPTION
FiberTrix-G-PSW-8	PON MDU, 1× XPON (GPON / EPON, SC/UPC) + 8× GE RJ45 PoE/PoE+
Supplied with an external AC-DC power adapter, 54 V DC / 2.4 A.	

07 REVISION HISTORY

REVISION	DATE	DESCRIPTION
R01	2026-10-22	Initial release.

Specifications are subject to change without notice. Actual performance may vary with network configuration and environment. © 2026 UGRID Network Inc. All rights reserved.