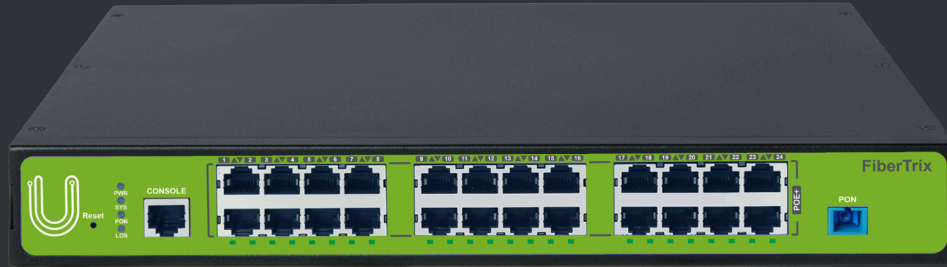


XG(S)-PON / GPON MDU WITH POE+ · FIBERTRIX SERIES

FiberTrix-24

1× PON SFP (XGS-PON / XG-PON / GPON) · 24× GE PoE+ · 1U 19-inch


1× PON SFP

XGS / XG / GPON

24× GE

POE+ PORTS

30 W

MAX. POE PER PORT

370 W

TOTAL POE BUDGET

90 Gbps

SWITCHING CAPACITY

01 OVERVIEW

The UGRID FiberTrix-24 is a 1U, 19-inch PON MDU for telecom operators delivering FTTB, FTTC, SOHO and video-surveillance access. Its PON port is an SFP slot, so the same unit runs in GPON, XG-PON or XGS-PON mode according to the ONU optical module inserted, in line with ITU-T G.984, G.987 and G.9807.1. Twenty-four Gigabit Ethernet ports supply IEEE 802.3af/at PoE+ — up to 30 W per port and 370 W in total — to power IP cameras, wireless APs and other devices over the network cable. ACL-based filtering, QoS and a full Layer 2 feature set keep data services reliable from –30 °C to +60 °C, with management over Telnet, CLI, Web or SSH v2.

FTTB & MDU

One PON drop feeds 24 Gigabit Ethernet ports across a residential or commercial building.

FTTC

Fiber to the curb: Gigabit Ethernet access from a single PON drop, rated for –30 °C to +60 °C operation.

Video surveillance & APs

24 PoE+ ports power IP cameras and wireless APs directly — 30 W per port, 370 W in total.

DEPLOYMENT SCENARIOS

FTTB

FTTC

MDU

SOHO

Video surveillance

Wireless APs

02 KEY FEATURES

- Any-mode PON SFP**
One SFP PON port runs GPON, XG-PON or XGS-PON according to the ONU optical module inserted.
- 24× GE PoE+**
24 Gigabit RJ45 ports with IEEE 802.3af/at PoE+: up to 30 W per port, 370 W in total.
- Layer 2 switching**
16K MAC addresses, 4,072 VLANs, VLAN translation and QinQ, LACP, RSTP and MSTP; 90 Gbps switching.
- Multicast**
IGMP v1/v2, IGMP snooping and IGMP proxy with up to 1K multicast groups; MLD v1/v2 snooping.
- Security & QoS**
L2–L4 ACLs, port isolation, storm control, 802.1X, AAA, RADIUS and TACACS+; QoS by port, VID, ToS and MAC.
- Simple management**
Telnet, CLI, Web and SSH v2; TFTP file transfer, NTP, system log, alarm management and OMCI.

03 TYPICAL APPLICATION

The FiberTrix-24 connects to the OLT through a passive optical splitter over GPON, XG-PON or XGS-PON, set by its PON optical module, and delivers Gigabit Ethernet with PoE+ to IP cameras, wireless APs and other devices.

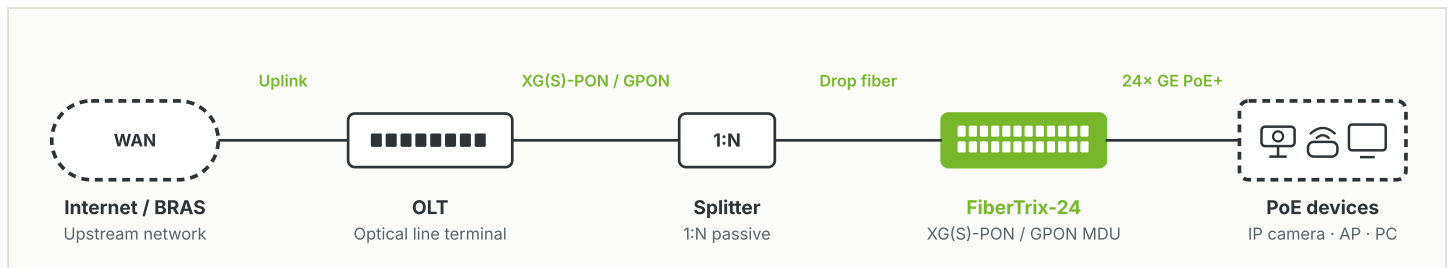


Figure 1 — FiberTrix-24 in a PON access network (FiberTrix-24 highlighted).

04 HARDWARE SPECIFICATIONS

CHASSIS & INTERFACES

Chassis	1U, 19-inch standard box
PON port	1× SFP slot; GPON, XG-PON or XGS-PON according to the optical module inserted
User ports	24× GE RJ45, 10/100/1000 Mbps auto-negotiation, PoE / PoE+
Management ports	1× console, 1× AUX (RJ45)

PON INTERFACE

Supplied ONU module	G model: GPON ONU SFP; XG model: XG-PON ONU SFP+; XGS model: XGS-PON ONU SFP+
Line rate	XGS-PON: upstream 9.953 Gbps, downstream 9.953 Gbps XG-PON: upstream 2.488 Gbps, downstream 9.953 Gbps GPON: upstream 1.244 Gbps, downstream 2.488 Gbps
Wavelength	GPON: TX 1310 nm, RX 1490 nm; XG(S)-PON: TX 1270 nm, RX 1577 nm
TX optical power	GPON +0.5 to +5 dBm; XG-PON +2 to +7 dBm; XGS-PON +4 to +9 dBm
RX sensitivity	-28 dBm
Overload optical power	-8 dBm
Transmission distance	20 km

PERFORMANCE

Switching capacity	90 Gbps
MAC address table	16K
Management modes	Telnet, CLI, Web, SSH v2

POWER & POE

Power supply	AC 100–240 V (rated 110 V / 220 V); 1× AC
Power supply rating	600 W
Max. power consumption	≤ 400 W
PoE standard	IEEE 802.3af / 802.3at (PoE / PoE+), all 24 GE ports
Max. PoE per port	30 W
Total PoE budget	370 W

PHYSICAL & ENVIRONMENTAL

04 HARDWARE SPECIFICATIONS (CONTINUED)

Dimensions (L × W × H)	442 × 216.2 × 43.6 mm
Weight	3.2 kg
Operating temperature	−30 °C to +60 °C
Storage temperature	−40 °C to +85 °C
Relative humidity	5%–95%, non-condensing

05 SOFTWARE FEATURES

Management - Telnet, CLI, Web, SSH v2 - TFTP file upload and download - NTP and system log - Port status monitoring and configuration management - User management - Alarm management	Layer 2 Switching 16K MAC addresses 4,072 VLANs; 24 reserved VLANs - Port VLAN and protocol VLAN - VLAN tag / untag, VLAN transparent transmission - VLAN translation and QinQ - Port-based storm control; port rate limiting - Port isolation - IEEE 802.1D STP, 802.1w RSTP and MSTP - Static and dynamic LACP - QoS based on port, VID, ToS and MAC address - Access control lists - Ethernet flow control - Port statistics and monitoring	Layer 3 Routing Static routing
XG(S)-PON / GPON - Compliant with ITU-T G.9807.1 (XGS-PON), G.987 (XG-PON) and G.984 (GPON) - OMCI - PON mode set by the ONU optical module - Up to 20 km transmission distance		IPv6 - IPv6 Telnet / HTTPS - IPv6 SLAAC - MLD v1/v2, MLD snooping
DHCP - DHCP server, DHCP relay, DHCP snooping - DHCP Option 82 - DHCPv6 server, DHCPv6 relay	Multicast - IGMP v1/v2, IGMP snooping, IGMP proxy - Multicast group limits 1K multicast groups	Security - L2/L3/L4 ACL traffic identification and filtering - Port isolation - IEEE 802.1X and AAA - RADIUS and TACACS+

06 ORDERING INFORMATION

SELECTED CONFIGURATION · MODEL NUMBER KEY	
FiberTrix	G / XG / XGS
FiberTrix series	Supplied PON module
PSW	24
PoE+ MDU	24× GE PoE+ ports
PART NO.	DESCRIPTION
FiberTrix-G-PSW-24	PON MDU, 1× PON SFP slot + 24× GE RJ45 PoE/PoE+, 1U; supplied with GPON ONU SFP module
FiberTrix-XG-PSW-24	PON MDU, 1× PON SFP slot + 24× GE RJ45 PoE/PoE+, 1U; supplied with XG-PON ONU SFP+ module
FiberTrix-XGS-PSW-24	PON MDU, 1× PON SFP slot + 24× GE RJ45 PoE/PoE+, 1U; supplied with XGS-PON ONU SFP+ module
Power configuration: 1× AC. The three models share the same hardware; the PON mode follows the ONU optical module inserted in the PON SFP slot.	

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.