

XGS-PON WI-FI 7 ONU

UNTXH2B0

1× XGS-PON · 1× 10GE + 4× GE · 2× FXS · Wi-Fi 7 BE7200

XGS-PON Wi-Fi 7 ONU with VoIP for high-bandwidth residential and enterprise FTTH.



XGS-PON

G.9807.1 · 1:128 · 20 KM

Wi-Fi 7

BE7200 DUAL-BAND

4×4

MU-MIMO · MLO

10GE

+ 4× GE · USB 3.0

2× FXS

SIP VOIP

01 OVERVIEW

The UGRID UNTXH2B0 is a carrier-grade XGS-PON Wi-Fi 7 ONU for high-bandwidth residential and enterprise FTTH. It combines symmetrical 10G XGS-PON access — ITU-T G.9807.1 compliant, 1:128 split ratio, 20 km — with BE7200 dual-band Wi-Fi 7 featuring Multi-Link Operation (MLO), 4096-QAM and 4×4 MU-MIMO, plus 1× 10GE + 4× GE LAN, two FXS voice ports and USB 3.0. Wi-Fi EasyMesh provides seamless whole-home coverage, and OMCI, TR-069 and Web management support remote configuration, monitoring and firmware upgrade.

Residential gateway

Wi-Fi 7, voice and multi-gig LAN in one ONU.

Enterprise FTTH

10GE + 4× GE wired, two FXS lines and USB 3.0 storage.

Operator-managed CPE

OMCI, TR-069 and Web for provisioning and firmware upgrade.

Whole-home coverage

Wi-Fi EasyMesh with 4×4 MU-MIMO.

DEPLOYMENT SCENARIOS

FTTH residential broadband

Wi-Fi 7 home networking

VoIP

4K/8K streaming

XGS-PON access

Remote provisioning

02 KEY FEATURES

- ✓ 10G fiber access**
Symmetrical 10 Gbps over XGS-PON, up to 20 km.
- ✓ Faster, steadier Wi-Fi 7**
BE7200, 4096-QAM and MLO.
- ✓ Gaming-ready QoS**
Dynamic QoS prioritizes latency-sensitive apps and gaming.
- ✓ Voice included**
2× FXS with SIP VoIP.
- ✓ Whole-home mesh**
Wi-Fi EasyMesh for seamless coverage.
- ✓ Remote lifecycle management**
OMCI and TR-069 provisioning and firmware upgrade.

03 TYPICAL APPLICATION

The UNTXH2B0 terminates the XGS-PON network at the subscriber premises, connected through an optical splitter (up to 1:128) to a UGRID U10 OLT, and delivers data, voice and Wi-Fi 7 to the home.

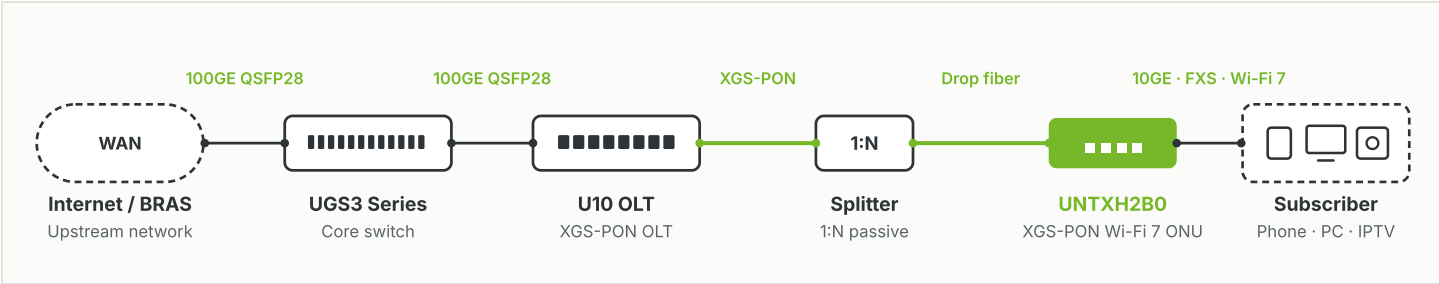


Figure 1 — UGRID end-to-end XGS-PON FTTx architecture (UNTXH2B0 highlighted).

04 HARDWARE SPECIFICATIONS

PON INTERFACE	
Port	1× XGS-PON, ITU-T G.9807.1 compliant
Connector	SC/APC
Line rate	10 Gbps upstream, 10 Gbps downstream
Split ratio	1:128
Transmission distance	20 km
USER INTERFACES	
Ethernet	1× 10GE + 4× GE RJ45 LAN; auto-negotiation
Voice	2× FXS (RJ11)
USB	1× USB 3.0 for external storage and shared device connectivity
Buttons	Power on/off, WPS/Wi-Fi, Reset
WI-FI	
Standards	IEEE 802.11be/ax/ac/n/a @ 5 GHz; IEEE 802.11be/ax/n/b/g @ 2.4 GHz
Data rate	BE7200 — 5 GHz 5764 Mbps, 2.4 GHz 1376 Mbps (802.11be)
MIMO	4×4 MU-MIMO
Antennas	9× 3 dBi internal
Wi-Fi 7 features	Simultaneous and alternating MLO; 4096-QAM
Mesh	Wi-Fi EasyMesh
Wireless security	WPA2, WPA3, WPA2/WPA3 Mixed
POWER	
Power adapter	12 V DC, 3 A
PHYSICAL & ENVIRONMENTAL	
Dimensions	264.2 × 176.8 × 73.5 mm
Operating environment	0 °C to +40 °C; 10%–90% RH, non-condensing
Storage environment	–40 °C to +70 °C; 5%–95% RH, non-condensing

05 SOFTWARE FEATURES

WAN & DHCP

- Bridging and routing modes
- PPPoE, DHCP and static IP WAN
- DHCP server and client, client list, address reservation

Management

- OMCI, TR-069 and Web management
- Remote configuration, monitoring and firmware upgrade

Internet Protocol

- IPv4 / IPv6 dual stack

QoS & VLAN

- Dynamic QoS with traffic prioritization for latency-sensitive applications and gaming
- 802.1Q tag VLAN
- VLAN transparent, translation and trunk modes

Port Forwarding & Firewall

- Virtual server, port triggering, UPnP, DMZ
- DoS and SPI firewall
- IP / MAC / domain filtering
- IP and MAC address binding

Access Control

- Parental control
- MAC / IP address-based access control

VoIP

- SIP (RFC 3261)
- Codecs: G.711 A-law/μ-law, G.722, G.729
- 2× FXS

Wi-Fi 7

- Simultaneous and alternating MLO across 2.4 GHz and 5 GHz, with seamless band switching
- 4096-QAM: 12 bits per symbol
- 4×4 MU-MIMO
- Wi-Fi EasyMesh whole-home coverage
- WPA2, WPA3 and WPA2/WPA3 Mixed

06 ORDERING INFORMATION

SELECTED CONFIGURATION · MODEL NUMBER KEY

UNT

UNT series

X

XGS-PON

H

1× 10GE + 4× GE

2

2× FXS

B

Wi-Fi 7 BE7200, internal antennas

0

No CATV

PART NO.	DESCRIPTION
UNTXH2B0	XGS-PON Wi-Fi 7 ONU, 1× 10GE + 4× GE + 2× FXS + USB 3.0 + Wi-Fi 7 BE7200 4×4 MU-MIMO

07 REVISION HISTORY

REVISION	DATE	DESCRIPTION
R01	2026-10-26	Initial release under the UNT model numbering; replaces former model UNT-X-H-2-B-0.

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