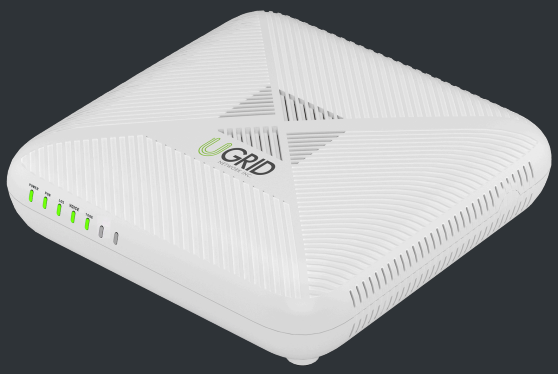
XGS-PON 10GE ONT

UNTXK100

1× XGS-PON · 1× 10GE · 1× POTS · Layer 2 bridge · OMCI / TR-069

XGS-PON ONT delivering symmetrical 10G fiber access to home and SOHO users.



10G	10GE + POTS	N2	FEC	OMCI
XGS-PON SYMMETRIC	RJ45 LAN · RJ11 VOICE	OPTICS CLASS, 20 KM	UPSTREAM & DOWNSTREAM	TR-069

01 OVERVIEW

The UGRID UNTXK100 is an XGS-PON ONT for home and SOHO (small office and home office) users. Deployed in the typical FTTH networking mode, it delivers symmetrical 10 Gbps over an ITU-T G.9807.1 XGS-PON port with N2 optics and hands off service through one 10GE RJ45 port to the subscriber's own router, plus one POTS RJ11 voice port, supporting high-speed Internet access, voice, video on demand, video conferencing and large file transfer. Remote service distribution, fault diagnosis and performance statistics over OMCI effectively reduce operation and maintenance costs.

Home broadband
Symmetrical 10G for high-speed Internet, video on demand and large file transfer.

SOHO
Video conferencing and large file transfer over a 10GE wired port.

Government & enterprise
Integrated broadband, data and video access.

DEPLOYMENT SCENARIOS

FTTH · Home broadband · SOHO · Government & enterprise · Video on demand · Video conferencing

02 KEY FEATURES

- **10G fiber to the home**
  Symmetrical 10 Gbps for Internet, video on demand and large file transfer.
- **Layer 2 bridge**
  Bridges Internet and IPTV services to the subscriber's own router or Wi-Fi gateway.
- **Voice service**
  1× POTS port with SIP; G.711, G.729A and G.722 codecs; T.30 / T.38 fax.
- **Works with existing gear**
  Interoperates with a wide range of routers, APs and switches.
- **Lower O&M cost**
  Remote service distribution, fault diagnosis and statistics over OMCI.
- **Flexible installation**
  Desktop, wall mount or inside an information box.

03 TYPICAL APPLICATION

The UNTXK100 terminates the XGS-PON network at the subscriber premises, connected through an optical splitter to an XGS-PON OLT, and hands off symmetrical 10G service over its 10GE port to the subscriber's own router or Wi-Fi gateway, with voice service over its POTS port.

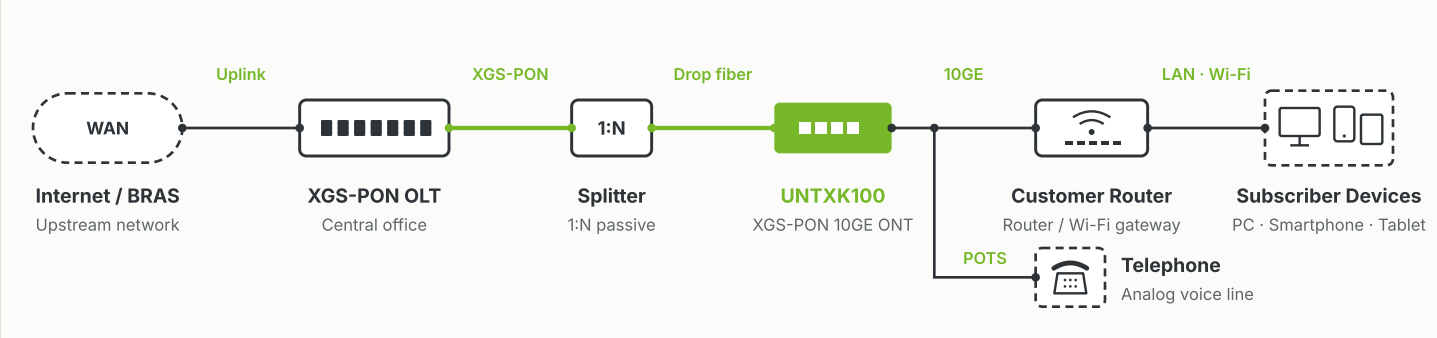


Figure 1 — Typical XGS-PON FTTx deployment (UNTXK100 highlighted).

04 HARDWARE SPECIFICATIONS

PON INTERFACE	
Port	1× XGS-PON — Class N2
Standard	ITU-T G.9807.1
Connector	SC/APC or SC/UPC
Line rate	10 Gbps upstream, 10 Gbps downstream
Optical transmitter	1270 nm; +4 to +9 dBm
Optical receiver	1577 nm; −28 dBm sensitivity, −9 dBm overload
Transmission distance	Up to 20 km
USER INTERFACES	
Ethernet	1× 10GE RJ45; auto-negotiation, MDI/MDIX auto detection
Voice	1× POTS RJ11; SIP
Indicators	Power, PON, LOS, Voice, 10GE
Buttons	1× Reset
POWER	
Power adapter	12 V DC, 1 A
Power consumption	≤ 12 W
PHYSICAL & ENVIRONMENTAL	
Dimensions	156 × 156 × 38 mm
Installation	Desktop, wall mount or inside an information box
Operating environment	0 °C to +40 °C; 10%–90% RH
Storage environment	−40 °C to +70 °C; 5%–90% RH

05 SOFTWARE FEATURES

PON

- Upstream and downstream FEC (Forward Error Correction)
- Priority queuing based on GEM port and T-CONT
- Downstream multicast

Layer 2

- Ethernet auto-negotiation and MDI/MDIX auto detection
- Built-in Layer 2 switch
- Internet and IPTV services in bridge mode
- VLAN tagging, flow classification and packet filtering

Management

- OMCI and TR-069
- Alarms and performance monitoring

Voice

- 1× POTS (RJ11)
- SIP
- Codecs: G.711, G.729A, G.722
- Fax: T.30, T.38

06 ORDERING INFORMATION

SELECTED CONFIGURATION · MODEL NUMBER KEY

UNT	X	K	1	0	0
UNT series	XGS-PON	1× 10GE	1× POTS	No Wi-Fi	No CATV

PART NO.	DESCRIPTION
UNTXK100	XGS-PON ONT, 1× XGS-PON (Class N2), 1× 10GE RJ45, 1× POTS RJ11

07 REVISION HISTORY

REVISION	DATE	DESCRIPTION
R01	2026-11-23	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.