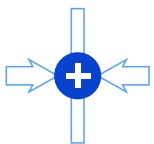# COMTREND

GRG-4361

XGS-PON VoIP ONT Gateway

XGS-PON WAN | 10 Gigabit Ethernet LAN | 1 VoIP Port | TR-069

The GRG-4361 is designed as a standards-based XGS-PON VoIP ONT Gateway that enables you to deliver up to 10G data to residential homes and supports VoIP services. A single 10 Gigabit Ethernet port provides a strong and stable network connection for ultra-high bandwidth services.

VOIP

- Symmetric 10G/10G UL/DL
- 10 Gigabit LAN
- TR-069 Remote Management
- 1 Voice Over IP Port
- Bridge Configurable
- Routing Function

Key Benefits

Next-Generation XGS-PON

Future-proof with the new XGS-PON standard that can co-exist with existing GPON and is capable of delivering symmetric 10G speeds.
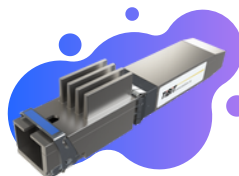
Meet Growing Bandwidth Demands

Deliver ultra-fast speeds that enable the highest bandwidth applications (e.g. AR/VR, over the top video, and Cloud gaming).

Works with a number of OLTs, and can pair with an OpenPON MicroPlug

OpenPON, a new, disruptive last-mile Fiber deployment option that allows for an open, extremely low-cost solution. Ask us about this new way to bring XGS-PON to your customers today!
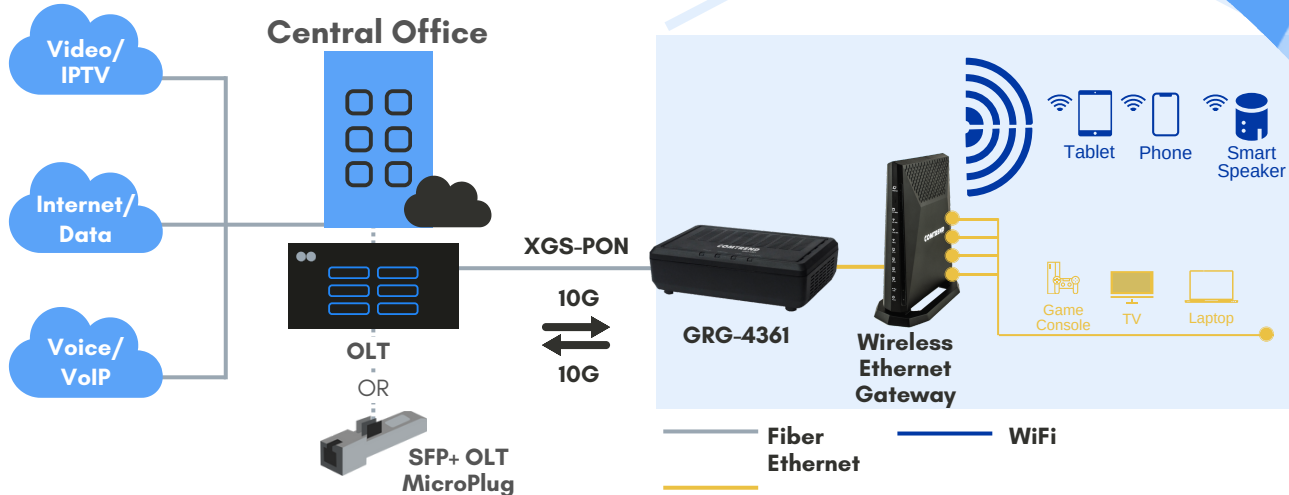
Back Image

XGS-PON Port

10 Gigabit Ethernet LAN

VoIP (FXS) Port

Application Diagram

Central Office

Video/IPTV

Internet/Data

Voice/VoIP

OLT
OR
SFP+ OLT MicroPlug

XGS-PON
10G
10G

GRG-4361

Wireless Ethernet Gateway

Tablet Phone Smart Speaker

Game Console TV Laptop

Fiber Ethernet — WiFi

Specifications

Hardware
- XGS-PON (SC/APC) x 1
- 10 Gigabit Ethernet LAN x 1
- VoIP (FXS) x 1
- LED Indicators: Power, GPON, 10GLAN, Phone
- Reset Button x 1
- Power Input 12VDC/1.0A

Management
- TR-069, HTTP, HTTPS, TELNET, SSH

XGS-PON compliance
- Complies with ITU-T G.9807.1 XGS-PON standard
- Complies with ITU-T G.988 OMCI standard
- DS/US speeds: 9.95328/9.95328 Gbps
- Wavelength: 1575~1580 nm (Rx) & 1260~1280 nm (Tx)
- Tx output: 4~7 dBm, RX sensitivity: -28 dBm
- Physical distance reach to 20 km
- Supports up to 8 T-CONs each with priority queues (US)
- Supports up to 32 GEM ports
- Flexible mapping between T-CONT and GEM port

VoIP
- SIP (Section Initiating Protocol, RFC 3261)
- Codec: G.711 a/μ (64K), G.726 (24/32K), G.722
- Fax/modem detection and pass-through
- Voice Active Detector (VAD) (silence suppression)
- Comfort Noise Generation (CNG)
- Supports fax T.38
- Dynamic jitter buffer
- DTMF detection and generation

- DTMF relay by in-band and out-of- band (RFC 2833, SIP INFO)
- SIP account (URL type included)
- Caller ID
- Call forwarding (no condition, busy, no answer)
- Call transferring (attended, unattended) all hold
- Three-way conference (local mixer)
- Call waiting

Layer 2 networking features
- MAC address learning
- MAC filtering
- Pv6 address transparent

Multicast
- IGMP v2/v3 snooping
- IGMP immediate leave
- IPv6 MLD v1/v2 snooping

VLAN functional specifications
- VLAN IEEE 802.1Q
- Supports protocol-based VLAN
- QinQ VLAN

QoS
- 802.1p priority with 8 queues
- Classification based on VLAN ID, 802.1p, VLAN ID + 802.1p
- Scheduling mode: strict priority, WRR

Physical Specifications
- Product Dimensions:
  - 5.83in (W) x 3.86in (D) x 1.81in (H)
  - 148mm(L) x 98mm (W) x46mm (H)
- Product Weight: 220g (0.49 lb)
- Packing Dimensions:
  - 6.93in (W) x 4.33in (D) x 3.46in (H)
  - 176mm(L) x 110mm (W) x 88mm(H)
- Packing Weight: 480 g (1.06 lb)

Certifications
- FCC, IC

Environment Conditions
- Temperature
  - Operating: 0°C ~ 40°C (32°F ~104°F)
  - Storage: -40°C ~ 70°C (-40°F ~158°F)
- Humidity:
  - Operating: 10 ~ 90% RH, non-condensing
  - Storage: 5 ~ 90% RH, non-condensing

Package Contents
- GRG-4361
- Power adapter 12DVC/1.0A, 100-240ACV
- RJ-45 Gigabit Ethernet cable

Note: Specifications are subject to change without notice