

Applications:

- Gigabit Ethernet Fiber to the Home
- Used in Point-to-Point configurations
- VoIP, Internet, IPTV
- Point-to-Point E-FTTH
- HPNA 3 option built-in for existing home wiring

Key Highlights:

- Self-Managing Ethernet based E-FTTH Terminal
- Auto Configures with all Ethernet Switches
- GigE uplink using a single fiber
- 2 VoIP ports on RJ-11
- 4 Ethernet Service Ports full line rate (500Mbps)
- HPNA 3 service port on coax connection
- 8 Hour battery back-up option
- Status Indicator LEDs
- Remote management of RHINO, in-house HPNA and UPS Batteries



The RHINO ONT (Optical Network Terminal) provides point to point 1Gbps Ethernet FTTH terminations for IP-based triple-play services. Gigabit Ethernet transport ensures bandwidth will be available both now and in the future for demanding Video, Data and Voice services using cost effective single fiber single mode SFP optics.

Flexible Ethernet-based FTTH Configurations

The RHINO ONT provides extraordinary flexibility for FTTH deployments in a Point-to-Point configuration. There is a single optical Gigabit Ethernet SFP port from the RHINO ONT to the C.O. Ethernet Switch/Router.

Industry's Lowest FTTH Deployment Costs

- RHINO ONT is optimized for Triple-play services delivery
- Hardened outdoor version and indoor version (INT) with mounting options
- Cost Effective VoIP, Internet, IPTV and HPNA 3 implementations
- Lower optical transceiver costs - RHINO supports the complete distance range of single mode and multi-mode ReadyLinks SFP laser packs

Open Standards Based

The RHINO ONT is compatible with all major Ethernet Switch and Router Vendors. The ONT is truly a plug and play Ethernet termination solution.

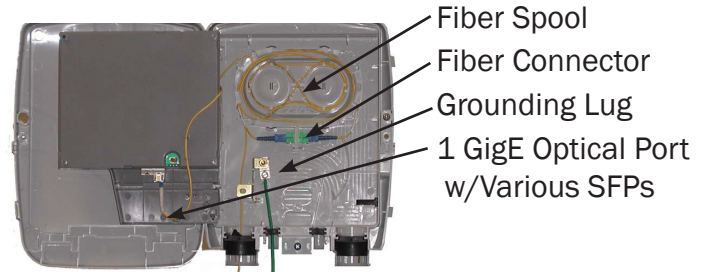
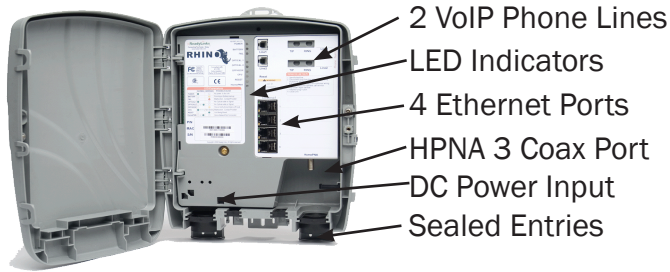
Rapid One Step Provisioning, Multiple Management Options

- Remote management of HPNA home network reduces truck rolls
- Auto provisioning via DHCP and active scripts
- Command Line Interface (CLI) with standard commands
- ReadyLinks BONUS Graphical User Interface

Integrated HPNA 3 for Easy Home Networking

Use existing home coax wiring to deliver IPTV and High-Speed Internet to reduce residential installation costs. RHINO has optional HPNA 3 built-in to interface with HPNA devices in the home to PCs, set-top boxes and VOIP phones.

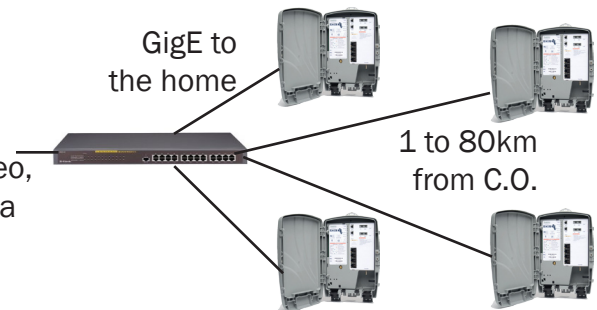
RHINO ONT Interfaces



ONT Deployment Example:

RHINO ONT can be connected to fiber ports on any Ethernet Switch/Router. The distance to any RHINO ONT is optimized through appropriate selection of SFPs.

10GigE upstream to Video, Voice and Data Networks



Specifications	
Environmental Specifications	
Operating Temperature	- 40 to 85 ° C
Input Voltage, Power Consumption	12 VDC, 8 Hour optional battery backup, 9 Watts
Humidity	95% non-condensing
Certifications	UL, CE, FCC Part 15 Class B
WAN and Service Ports	
WAN Connectivity	1 SFP supporting 1Gbps symmetrical Ethernet. Dual or single fiber, single mode or multi-mode, short, medium or long reach SFPs. Either SFP port may be used.
Ethernet Service Ports	Four (4) 10/100BaseTX Ethernet full duplex RJ-45, full line rate 500Mbps
Voice Service Ports	Two (2) RJ-11 analog voice connectors, Life-line support through 8-hour battery backup. GR-909
VoIP Protocols and Voice	SIP (RFC 3261) and MGCP, G.711 (u-law,A-Law), G.722, G.723, G.726-32, G.729 Codecs, Fax T.38
Video	Video Prioritization
HPNA 3	One (1) Optional HPNA 3 Coax connector
Quality of Service	802.1Q VLAN, 802.1p (Voice, Video, Data and Management have their own priorities), QinQ tagging, up to 200 VLANs, Per port egress rate shaping and ingress rate limiting and policing
Standards Compliance	IEEE802.3, IEEE802.3U, IEEE802.x, IEEE802.1D IEEE802.1Q VLAN ID, RoHS, GR-49
Mechanical Specifications	
Dimensions, Weight	12”(L) x 9.75”(W) x 3.5”(H), (350mm x 245mm x 80mm), 4 lbs.

Note: specifications are subject to change. v2.4