

Data Sheet

RGN™-500 Series Active Point to Point ONT

HIGHLIGHTS

- Prioritizes traffic to enable broadcastquality video on demand, full-motion video conferencing, and online gaming services
- Stateful IGMP Proxy support for dynamically controlled multicast traffic
- Only one public IP address needed for the home when using the embedded NAT/router interface
- Ability to maintain channel state at the premise for more economical use of bandwidth
- Line rate switching capacity when utilizing LAN2 ports
- High performance HPNAv3 support for video distribution over existing in home Coaxial network
- Stateful inspection firewall and NAT security service
- Secure and customizable Web-based interface for easy remote provisioning and simple online ordering
- Fully manageable from BAM™,
- Enableness's Element Management
- System that provides zero touch

DESCRIPTION

Enableness delivers customer-proven broadband access solutions that enable its customers to seamlessly evolve their legacy networks to Ethernet/IP. Based on industry-standard IP (Internet Protocol) and Ethernet technologies, Enableness's comprehensive Service Convergence Network (SCN™) architecture is proven to help service providers compete more effectively and ensure a next-generation network that will support emerging, bandwidth intensive services and applications for decades to come.



The Enableness suite of multi play ready ONT's support a direct connection to a next generation SoftSwitch via MGCP or SIP as well as provide GR-303 POTS services via our voice gateway platform. The multi-purpose IEEE 802.3ah Ethernet in the First Mile (EFM) compliant active point to point ONT's additionally support high speed internet access and switched digital video (IPTV). The RGN provides 100MB or 1GB SFP optical network interfaces with optional HomePNAv3/ITU G.9954 standard support for easy customer installation. Integrated BAM support allows for pre-deployment configuration, remote configuration and activation of the entire ONT family. Each of these RUS listed, technician friendly, environmentally hardened, exterior mounted ONTs features unique port configurations that optimize service delivery for particular subscriber requirements, maximizing customer penetration and revenue potential.

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Specifications

Interfaces

- Four RJ-45 10/100 Ethernet Switched LAN2 ports
- One RJ-45 10/100 Ethernet Routed LAN1 Port
- SFP based 100MB or 1GB uplink
- Two RJ-11 POTS ports: 5 REN each port (RGN-550/560)
- One HPNAv3 Coaxial port (RGN-540/560)

Voice

- Advanced Call Services: caller ID, caller name delivery, call return (*69), call block, distinctive ring, call waiting, distinctive call waiting, call forwarding, selective call forwarding, call restriction, 3-way calling, caller directory, call transfer
- QOS: via DSCP Marking
- G.168 echo cancellation
- RFC 2833 support
- G.711 signaling; SIP or NCS
- Phone numbering: E.164
- Supports fax/analog modem
- E911, Lifeline support

Management

- SSL
- Advanced Remote Diagnostics
- Telnet
- SNMP
- Mass provisioning/upgrades
- SSH

Data

- Layer 2 functionality
 - IEEE 802.1D/Q tagging
 - NTP, PPPoE
- Layer 3 functionality
 - NAT, IGMP
 - Firewall, Port forwarding
 - Denial of Service protection
- IP support
 - IPv4 addressing, ARP, ping, Telnet, trace route
- DHCP Client — On uplink ports
- DHCP Server — On 10/100 ports per interface
- DNS Client
- Upgrade – fail safe: BootP, FTP, TFTP

Compliance & Environmental

- RUS Listed
- EMC: FCC part 15 Class A
- Safety: UL/CSA 60950
- Telecom: US TIA IS 968, Canada CS03
- Humidity: 10 to 90% (non-condensing)
- Operating temperature: -40° to 60°C (-40° to 140°F)
- Storage temperature: -50° to 90°C (-58° to 194°F)
- MTBF: greater than 100,000 hours at 25°C

Physical Specifications

- Measurements:
 - 12.7" H x 9.9" W x 3.8" D
- Mounting: External
- Maximum power:
 - 18 Watts at 12V DC

Ordering Information

- **RGN-530-FRU**
 - Field replaceable RGN 530 control card and inner door assembly with 100MB or 1GB SFP based uplink
- **RGN-540-FRU**
 - Field replaceable RGN 540 control card and inner door assembly with 100MB or 1GB SFP based uplink and HPNAv3 support via Coaxial interface
- **RGN-550-FRU**
 - Field replaceable RGN 550 control card and inner door assembly with 100MB or 1GB SFP based uplink
- **RGN-560-FRU**
 - Field replaceable RGN 560 control card and inner door assembly with 100MB or 1GB SFP based uplink and HPNAv3 support via Coaxial interface
- **RGN-CH2**
 - Standard Corning Enclosure
- **RGN-CH2-OPTI**
 - Standard Corning Enclosure with OptiTap compatible hardware

About Enablence

Enablence Technologies Inc., (TSX: ENA-V) a publicly traded company headquartered in Ottawa, Canada, designs, manufactures and sells optical components, subsystems and systems to a global customer base.

Enablence's Systems Division has an expanding fiber-to-the-premise (FTTP) product portfolio featuring a variety of architectural options. It enables service providers to evolve their access networks from traditional copper-based networks to advanced optical communications access networks that are based on state-of-the-art IP and Ethernet standards, for triple-play voice, video and data services including HDTV, IP Telephony and ultrafast internet access. The Division's network equipment has been deployed with 420 service providers worldwide that serve over 4 million subscribers.

Enablence's Optical Components and Subsystems Division is a global leader in applying Planar Lightwave Circuit (PLC) technology to integrate multiple components into a single optical chip to reduce footprint and costs. Network and equipment designers around the world turn to Enablence for a variety of components and subsystems for access, metro and long-haul including transceivers, splitters, waveguides, optical channel monitors, multiplexers, ROADMs, switches, tunable dispersion compensators, and photodiodes. The Division serves over 120 system and subsystem developers and its products have been integrated in all major communications networks worldwide, serving tens of millions of subscribers.