

5600N Series G.SHDSL EFM Modem



Introduction

Proscend 5600N G.SHDSL EFM Modem Series is designed to provide bonded high-speed Ethernet First Mile services over SHDSL on existing copper infrastructure. It is a bridge mode modem that delivers Ethernet services with symmetrical bandwidth at rates up to 15.3Mbps/Pair (TC-PAM 128). Implemented based on IEEE 802.3ah EFM standards for advanced performance and management features, 5600N Series ensures high reliability, low expense and maximum throughput. The introduction of EFM copper bonding technology allows delivery of higher bandwidth to longer distances over multiple copper pairs, enabling a good alternative in place where fiber is not economical to deploy. This “Ethernet-pure” solution provides a seamless integration into today and tomorrow’s networks.

Proscend 5600N Series extends the reach of Ethernet services to the sites by using bonded copper pairs. Up to 4 pairs can be bonded together for aggregated bandwidth over 61Mbps (TC-PAM 128). Designed with standard-based EFM technology (2BASE-TL), deployment of Ethernet services with 5600N is quick and simple on the existing copper plant. It operates mainly in Point-to-Point connection between remote offices and enterprise headquarter, providing symmetrical high-speed connectivity that is ideal for large and small-to-medium enterprises to deliver business-class Ethernet service. Proscend 5600N Series provides future-proof features meeting Ethernet Quality of Service (QoS) and Class of Service (CoS) requirements by utilizing 802.1q VLAN capabilities, four levels of priorities, traffic flow control and rate control. This traffic management and QoS features enable service providers to offer highly profitable value-added services to a vast majority of business and institutional sites.

Features

- Extending Ethernet Services to sites with existing copper infrastructure
- EFM Bonding up to 61 Mbps (4 pairs, TC-PAM 128)
- Support EFM mode
- Flexible and Rapid Service Deployment
- Flexible configuration as CPE or CO
- Support EFM OAM complying IEEE 802.3ah
- Low Delay, Jitter and Packet Loss for delay sensitive applications
- Comprehensive and easy OAM & P functions in provisioning and management
- QoS feature for guaranteed Ethernet service
- Future-proof Ethernet traffic management and QoS features

Specifications

<p>Network Interface</p> <p>LAN Interface</p> <ul style="list-style-type: none"> ■ 4-port switching hub ■ 10/100BASE-T auto-negotiation & sensing ■ Auto MDI/MDI-X <p>G.SHDSL.bis WAN Interface</p> <ul style="list-style-type: none"> ■ ITU-T G.991.2.(2004) ■ 2BASE-TL ■ EFM bonding (IEEE 802.3ah PAF) ■ Data Rate: <ul style="list-style-type: none"> N x 64 Kpbs (N=3~89) using TC-PAM 16/32 <ul style="list-style-type: none"> ● Max. 5.696Mbps (1-Pair) ● Max. 11.392Mbps (2-Pair) ● Max. 22.784Mbps (4-Pair) N x 64 Kbps (N=3~239) using TC-PAM 64/128 <ul style="list-style-type: none"> ● Max. 15.296 Mbps (1-Pair) ● Max. 30.592 Mbps (2-Pair) ● Max. 61.184 Mbps(4-Pair) ■ Support of Annex A , Annex B , Annex AF & Annex BG ■ Support TC-PAM 16/32/64/128 ■ Impedance: 135 ohms. <p>LAN Protocols</p> <ul style="list-style-type: none"> ■ 802.1d Transparent Bridging ■ Up to 2K MAC Address learning bridge <p>Hardware Interface</p> <ul style="list-style-type: none"> ■ IWAN(DSL) : RJ-45 x 1 ■ LAN : RJ45 x 4 ■ Management Port: RJ45 x 1 ■ Console Port: RJ45 x 1 ■ Reset Button: Load Factory Default ■ DC Power Jack x 1 <p>Indicator</p> <ul style="list-style-type: none"> ■ LAN: Link/Act, 10/100 per port ■ WAN: Link per loop ■ System: Power, Alarm, MGMT 	<p>Management</p> <ul style="list-style-type: none"> ■ Easy to use web-based GUI for quick setup, configuration and management ■ Menu-driven interface/Command line interface (CLI) for local console and telnet access ■ Password protected management and access control list for administration ■ SNMP v1/v2 (RFC1157/1901/1905) agent and MIB II (RFC1213/1493) ■ EFM OAM (IEEE 802.3ah) ■ Software upgrade via web-browser/TFT <p>VLAN Support</p> <ul style="list-style-type: none"> ■ IEEE 802.1q VLAN Tagging ■ Port Based VLAN ■ Up to 8 802.1q VLANs (ID Range1~4094) ■ VLAN Stacking (Q-in-Q) <p>QoS Support</p> <ul style="list-style-type: none"> ■ Rate limiting by rule-based/port-based ■ Traffic classification based on port/802.1p/ DSCP ■ WRR (Weighted Round Robin) ■ SPQ (Strict Priority Queuing) scheduling algorithm <p>Environment</p> <ul style="list-style-type: none"> ■ Operating Temperature: -20°C ~ +40°C ■ Storage Temperature: -20°C ~ +85°C ■ Relative Humidity: 98%, non-condensing <p>Physical/Electrical</p> <ul style="list-style-type: none"> ■ Dimension (W x H x D): 195 x 48 x 168 mm ■ AC Power Adapter (100~240VAC with 50~60Hz) ■ Weight: <ul style="list-style-type: none"> ● 5610N: 1300g ● 5620N: 1320g ● 5640N: 1340g <p>Memory</p> <ul style="list-style-type: none"> ■ 2MB Flash Memory, 16MB SDRAM <p>Regulatory</p> <ul style="list-style-type: none"> ■ ISO 9001 Quality Management ■ CE Approval & EN60950 Certificate ■ FCC Part 15 Subpart B
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Ordering Information

Model Name	Description
5610N	2-Wire G.SHDSL.bis EFM Modem
5620N	4-Wire G.SHDSL.bis EFM Modem
5640N	8-Wire G.SHDSL.bis EFM Modem

NOTE: Features and specifications are subject to change without prior notice.