

Proscend 6200 series enables service providers to offer symmetrical high-speed Ethernet service or point-to-point connectivity to their enterprise customers. It is the ideal copper-based Ethernet solution for quick deployment of standardized, reliable and secure services with carrier-class OAM and comprehensive management options.

Features

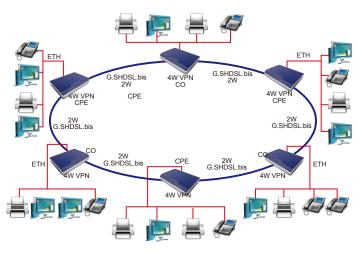
- Extending Ethernet Services to sites with existing copper infrastructure
- Business-class Ethernet services with flexibility of mapping user traffic into Ethernet flows
- EFM Bonding up to 61 Mbps (4 pairs, TC-PAM 128)
- Support both EFM mode and ATM mode
- IPSec VPN for safeguarded connections
- Flexible and Rapid Service Deployment
- Support EFM OAM complying IEEE 802.3ah
- Low Delay, Jitter and Packet Loss for delay sensitive applications



VPN IPSec Tunnels

Headquarter **Branch Office** 1 ~ 12 VPN IPSec Tunnels

Ring Topology



Specification

Hardware Interfaces

WAN Interface.

- SHDSL.bis: ITU-T G.991.2 (2004) Annex A/B/F/G
- Support EFM Bonding and SHDSL M-Pair mode
- Line Code: TC-PAM 16/32/64/128
- Data Rate:

 $N \times 64$ Kpbs (N=3~89) using TC-PAM 16/32

Max. 5.696Mbps (1-Pair) Max. 11.392Mbps (2-Pair) Max. 22.784Mbps (4-Pair)

 $N \times 64 \text{ Kbps} (N=3\sim239) \text{ using TC-PAM } 64/128$ Max.15.296 Mbps (1-Pair)

Max.30.592 Mbps (2-Pair) Max.61.184 Mbps (4-Pair)

• Impedance: 135 ohms

LAN Interface:

- 4-Ports 10/100M Switch, Auto-negotiation for 10/100Base-TX and Half/Full Duplex, Auto-MDIX 2-Port USB:
- Supports USB 2.0
- Supports 3.5G

Serial Console:

RJ-45 Connector

Factory Default Reset:

 Push Button IFD:

- WAN: LINK/ACT (Green), one LED per pair
- LAN (Port 1 ~ Port 4): LINK/ACT (Green: 100M, Orange: 10M)
- ALARM (Red)

Bridging and VLAN

- IEEE 802.1D Transparent Learning Bridge
- IEEE 802.1Q and Port Based VLAN
- Spanning Tree Protocol (STP)
- Up to 2K Mac Address

6200 series G.SHDSL.bis EFM/ATM VPN Router

Routing

- Static routing and RIP v1/v2(RFC 1058/2453)
- NAT/PAT (RFC 1631)
- NAT Application Level Gateways
- Skype/MSN/Yahoo Messenger (RF 2933)
- VoIP(SIP) pass through and VPN PPTP/L2TP pass through
- Virtual Server

Network Protocol

- IPv4 (ARP/RARP, TCP/UDP, ICMP)
- DHCP Client/Server, Relay
- DNS Relay/Proxy, Dynamic DNS (DDNS)
- IGMP v1/v2, IGMP Proxy, IGMP Snooping
- SNTP and UPnP

ATM

- 12 PVC
- OAM F4/F5 Loopback
- VC Multiplexing and SNAP/LLC
- EoA (RFC 2684/RFC 1483), PPPoA (RFC 2364) and IPoA (RFC 1577)
- Multiple protocol over ATM AAL5 (MPOA, REF 1483/2684)
- QoS(UBR/CBR/VBR/VBR-RT)

PPP

- PPPoE
- PAP/CHAP/MS-CHAP/MS-CHAPv2
- Configurable timer to auto-reconnect and idle times for timeout

QoS

- 802.1P Tag
- IPv4 TOS/DiffServ
- Class-based Prioritization and Class-based Traffic Shaping
- Class-based DSCP Mark
- Up to 8 priority queues

- IPSec (RFC 2411) up to 12 Tunnels
- DES/3DES/AES
- MD5/SHA-1 and IKE/Manual Key
- ISAKMP (RFC 2407/2408/4306) and IKE v1 (RFC 2409/4109)
- PSK
- L2 TP/PPTP

Firewall

- SPI (Stateful Packet Inspection) and DoS (Denial of Service)
- DMZ
- Access Control List (ACL)

Management

- Management via Web, Telnet and CLI
- Support SSH (RFC4250/4251/4252/4253/4254/4255/4256)
 SNMP v1/v2c/v3 (RFC 1157/1901/1905) and MIB II (RFC 1213/1493)
- Syslog with Remote Logging support
- Firmware Upgrade via TFTP
- EFM Oam (IEEE 802.3ah optional)
- Ethernet Oam (802.3ag optional)

Operating Environment

- Operating Temperature: O~45°C
- Storage Temperature: -20 °C~70°C
- Operating Humidity: 20%~95% (non-condensing)

Regulatory

- ISO 9001 Quality Management
- CE Approval & EN60950 Certificate

Physical / Electrical

- Dimensions: 18.7 x 3.3 x 14.5cm (WxHxD)
- Power: 100~240VAC (via power adapter)
- Power Consumption: 9 watts Max.



Order Information

Specification \ Model	6200-2W/U	6200-4W/U	6200-8W/U
Maximum DSL wires	2-wires	4-wires	8-wires
Maximum data rate	5.69 Mbps (TC-PAM 16/32) 15.296 Mbps (TC-PAM 64/128)	11.392 Mbps (TC-PAM 16/32) 30.592 Mbps (TC-PAM 64/128)	22.784 Mbps (TC-PAM 16/32) 61.184 Mbps (TC-PAM 64/128)
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