

Product Overview

Xentino SR3xx Series 2/4/8-Wire SHDSL.bis EFM/ATM VPN Router provides secure and symmetrical high-speed connectivity over existing copper-line infrastructure that is ideal for SOHO and SME users. It features the latest G.Shdsl.bis technology supporting symmetrical upstream and downstream data rates up to **15.3Mbps/Pair (TC-PAM 128)**. Four pairs can be bonded together for aggregated bandwidth over **61 Mbps**. Xentino SR3XX Series VPN Router operates the SHDSL link in either EFM mode or ATM mode. It is designed to deliver business class Ethernet Service under EFM mode while providing the flexibility to be compatible with the existing DSLAM infrastructure under ATM mode.



Xentino SR3XX Series supports flexible VPN applications including VPN pass-through, client-to-VPN gateway and **VPN LAN-to-LAN** connection. It features **IPSec VPN up to 12 encrypted tunnels** for secure data communications between remote sites, home offices and mobile users across public IP networks like the Internet. It also supports up-to-date 3DES and AES for data encryptions as well as MDS/SHA-1 and manual/IKE key for authentication.

The Quality of Service (QoS) features allow users to allocate network resources effectively. By classifying the priority of services, the powerful bandwidth management functions increase efficiency on latency-sensitive applications such as VoIP, video streaming, video conferencing and interactive game.

Xentino SR3XX 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.

Key Features

- ✧ 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
- ✧ Extending Ethernet Services to sites with existing copper infrastructure

Ordering Information

Model	Description	Max Data Rate (TCPAM16/32)/(TCPAM64/128)
SR310	2 wire (1 pair) G.SHDSL-BIS EFM/ATM VPN Router with 4x100Mbps LAN Ethernet	5,69 / 15,296Mbps
SR320	4 wire (2 pair) G.SHDSL-BIS EFM/ATM VPN Router with 4x100Mbps LAN Ethernet	11,392 / 30,592Mbps
SR340	8 wire (4 pair) G.SHDSL-BIS EFM/ATM VPN Router with 4x100Mbps LAN Ethernet	22,784 / 61,184Mbps

Product Specifications

WAN Interface

- SHDSL.bis: ITU-T G.991.2 (2004) Annex A/B/F/G supported
- Support EFM Bonding and SHDSL M-Pair mode
- Line Code : TC-PAM 16/32/64/128
- Data Rate:
 - N x 64 Kbps (N=3~89) using TC-PAM 16/32
 - 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
 - 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 Supported.

Bridging and VLAN

- Up to 2K MAC address learning bridge
- IEEE 802.1D transparent learning bridge
- IEEE 802.1Q/1P VLAN Port-based
- Spanning Tree Protocol (STP)

Routing

- IP routing with static routing and RIPv1/RIPv2 (RFC1058/2453)
- Network address translation (NAT/PAT) (RFC1631)
- NAT Application Level Gateway
- Skype/MSN/Yahoo Messenger (RF2933)
- VoIP(SIP) / VPN PPTP/L2TP pass through
- Virtual Server

Network Protocol

- IPv4 (ARP/RARP, TCP/UDP, ICMP)
- DHCP Client/Server, Relay
- DNS Relay/Proxy, Dynamic DNS (DYDNS)
- IGMP V1/V2, IGMP Proxy, IGMP Snooping
- SNTP and uPnP

ATM

- Multiple Protocols over AAL5
- Ethernet over ATM (RFC 2684/1483)
- 12 PVC
- OAM F4/F5 Loopback
- VC Multiplexing and SNAP/LLC
- AAL5

PPP

- PPPoE
- PAP/Chap/MS-Chap/MS-ChapV2
- Timer (Auto-reconnect and idle 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

VPN

- IPSec (RFC 2411) up to 12Tunnels
- DES/3DES/AES
- MD5/SHA-1 and IKE/Manual Key
- ISAKMP (RFC2407/2408/4306) and IKE v1 (RFC2409/4109)
- PSK
- L2TP/PPTP

Firewall

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

Management

- Management via WEB, Telnet, CLI
- SSH access (RFC4250/4251/4252/4253/4254/4255/4256)
- SNMP v1/v2c/v31(RFC 1157/1901/1905) and MIB-II (RFC1213/ 1493)
- Syslog with remote logging support
- Firmware Upgrade via TFTP
- EFM OaM (IEEE 802.3ah optional)
- Ethernet OaM (IEEE 802.3ag optional)

Operating Enviroment

- WAN: RJ-45 x 1
- LAN: RJ-45 x 4
- Console Port: RS232 female
- Reset Button: Load factory default
- Power Jack

Indicators

- System: PWR, ALM
- DSL 1~4: LNK/ACT
- LAN 1~4: LINK/ACT

Physical / Electrical

- Dimensions: 18.7 x 3.3 x 14.5cm (WxHxD)
- Power: 100~240VAC (via power adapter)
- Power Consumption: 9 watts Max
- Operating Temperature: 0~45°C
- Storage Temperature: -20°C~70°C
- Humidity: 0%~95%RH (non-condensing)

Regulatory

- CE
- ISO 9001
- EN60950

