



## eToAccess - GH6200 SHDSL.bis VPN Router

### eTo inc.,

15-3 Dasi Rd Dacun ChangHua  
51543 Taiwan, R. O. C.

Tel: 886-4-8529443  
Fax: 886-4-8536475

Website: [www.etotek.com.tw](http://www.etotek.com.tw)

### SHDSL.bis VPN Router Description

The eToAccess 6200 Series SHDSL.bis EFM/ATM 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-PAM128). Four pair can be bonded together for aggregated bandwidth over 61Mbps eToAccess 6200 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 compatible with existing DSLAM infrastructure under ATM mode.



SHDSL.bis VPN Router

eToAccess 6200 series support flexible VPN applications including VPN pass-through, client to VPN gateway and VPN LAN to LAN connection. It features IPsec VPN up to 32 encrypted tunnels for secure data communications between remote site, 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 MD5/SHA-1 and manual /IKE key for authentications.

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 application such as VoIP, video streaming, video conferencing and interactive game.

eToAccess 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 service with carrier-class OAM and comprehensive management options.

### SHDSL.bis VPN Router 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 61Mbps(4 Pair, TC-PAM 128)
- Support both EFM mode and ATM mode
- IP Sec VPN for safeguarded connections
- Flexible and Rapid Service Deployment
- Support EFM OAM complying IEEE802.3ah
- Low delay, Jitter and Packet Loss for delay sensitive application



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## SHDSL.bis VPN Router Specification

### Hardware Interface

#### WAN Port

- 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:
  - Nx 64Kbps (N=3~89, using TC-PAM16/32)
    - Max. 5.696Mbps(1 pair)
    - Max. 11.392Mbps(2 pair)
    - Max. 22.784Mbps(4 pair)
  - Nx 64Kbps (N=3~89, using TC-PAM64/128)
    - Max. 15.296Mbps(1 pair)
    - Max. 30.592Mbps(2 pair)
    - Max. 61.184Mbps(4 pair)
- impedance : 135 ohms

#### LAN interface :

- 4-port switching auto-negotiation for 10/100Base-Tx and half/full duplex, Auto-MDIX Supported
- IEEE802.1D Transparent Learning Bridge
- IEEE802.1Q and and Port base VLAN
- Up to 2K MAC Address
- Spanning Tree Protocol (STP)

#### USB Port : (Optional)

- Support USB2.0
- Support 3.5G
- Support USB Printer

#### Serial Console Port : RJ45 Connector

#### Factory Default Reset : Push Button

#### LED

- Power ( Green)
- WAN : LNK,ACT ( Green) , One LED per pair
- LAN: (Port 1 - port 4 ) LINK/ACT ( Green)
- ALARM: ( red)

#### Bridging and VLAN

- IEEE802.1D Transparent Learning Bridge
- IEEE802.1Q and Port Based VLAN
- Spanning Tree Protocol(STP)
- Up to 2K MAC Address

#### Routing

- Static routing and RIPv1/RIPv2 (RFC 1058/2453)
- NAT/PAT , Multi-NAT (RFC1631)
- NAT Application Level Gateways
- Skype/MSN/Yahoo messenger (RFC2933)
- VOIP(SIP) pass through
- VPN PPTP/L2TP pass through
- Virtual Server

#### Network Protocol

- IPV4(ARP/RARP, TCP/UDP, ICMP)
- DHCP server,client and relay
- DNS relay/proxy,Dynamic DNS(DDNS)
- IGMP v1/v2 , IGMP Proxy , IGMP snooping
- SNTP and UPnP

#### ATM

- Up to 8 PVCs
- OAM F4/F5 loopback
- AAL5
- VC multiplexing and SNAP/LLC
- Ethernet over ATM(RFC 2684/1483)
- PPP over ATM(RFC 2364),IPoA(RFC 1577)
- Multiple Protocol over ATM
  - AAL5(MPOA,REF1483/2684)
  - QOS(UBR/CBR/VBR/VBR-RT)

#### PPP

- PPP over Ethernet
- PAP/CHAP/MS-CHAP/MS-CHAPv2
- Configurable timer to auto-reconnect
- Configurable idle times for timeout

#### QOS

- 802.1p Tag
- IPv4 TOS/DiffServ
- Class-based Prioritization and Class-based Traffic Shapping
- Class-based DSCP Mark
- UP to 8 Priority queues

#### VPN

- IPSec ( RFC2411) up to 4 channels
- DES/3DES/AES
- MD5/SHA-1,IKE/Manual Key
  - ISAKMP(RFC 2407/2408/4306)
  - IKE v1 (RFC 2409/4109)
  - IKE v2 (RFC 4306/4307)
- PSK
- L2TP/PPTP

#### Firewall

- SPI(Stateful Packet Inspection)
- DoS(Denial of Service)
- DMZ(physical and logical)
- Content filtering ,URL Blocking
- Packet Filtering / Access Control List ( ACL )





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## SHDSL.bis VPN Router Specification

### Operating Environment

- Operating Temperature 0-45 Degree C
- Storage Temperature -20 - 70 Degree C
- Operating Humidity : 20%-95% (non-condensing)

### Management

- Web and Telnet /CLI
- Support SSH(RFC4250/4251/4252/4253/4254/4255 4256)
- SNMP v1/v2/v3 ( RFC 1157/1901/1905) and MIB II(RFC 1213/1493)
- Syslog with Remote Logging support
- Firmware Upgrade via TFTP/PEFM (IEEE802.3ah) OAM

### Regulatory :

- ISO9001 Quality Management
- CE Approval & EN60950 Certificate

### Physical / Electrical

- Dimensions: 18.7 x 3.3 x 14.5 cm
- Power : 100-240 VAC ( via Power Adapter)
- Power consumption : 9 Watts Max
- Temperature : 0-45 Degree C
- Humidity : 0-95%RH(non-codensing)

## Model Information

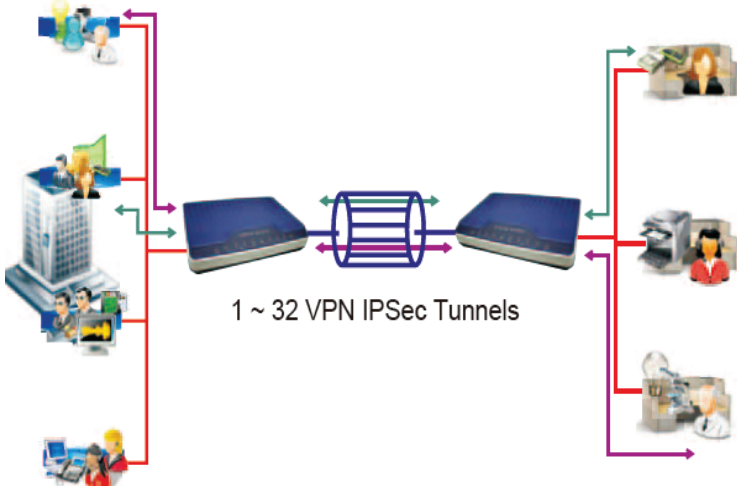
Model No	GH6210	GH6220	GH6240
DSL Wires	2-wire	4-wire	8-wire
Max.data rate	5.696Mbps(TC-PAM 16/32) 15.296Mbps(TC-PAM 64/128)	11.392Mbps(TC-PAM 16/32) 30.592Mbps(TC-PAM 64/128)	22.784Mbps(TC-PAM 16/32) 61.184Mbps(TC-PAM 64/128)
USB Port		option(USB2.0)	

## Application

### VPN IPsec Tunnels

#### Headquarter

#### Branch Offices



### Ring Topology

