

## Vigor3100 Series

### G.SHDSL SECURITY ROUTER



The G.SHDSL is a solution for SDSL (Symmetrical DSL ) which provides same transmission rate up to 2.3Mbps in one pair for uploads and downloads. For business hosting web, ftp other servers, SDSL is an appropriate solution than others. It can give customers a fast and efficient connection to specified servers, and provide good performance by comparing with leased lines (T1/E1) connectivity with a lower cost.

The Vigor3100 Series are integrated with G.SHDSL to meet the requirements and principles of saving cost for small business and managed services providers. The ISP can use the benefit of Vigor3100 Series to offer an actual business-class broadband service. And, the business users (or customers) can connect to Internet or offices through broadband access. In addition, users need a high-level support to make the network up and running. Such services can be set up easily with Vigor3100 Series.

In general, the enterprise emphasizes the security of corporate network. With sophistic VPN firewall feature, Vigor3100 series provide 32 dedicated virtual private data networks tunneling through public Internet and allow remote users connecting to headquarters easily and safely. All the data transmitted can be well encrypted with the hardware-based DES/3DES engine. Therefore, Vigor3100 series can resist any snooping without degrading the performance while enabling VPN function.

Moreover, with the speed of 108bps in WLAN, Vigor3100 Series allows the WLAN users to enjoy the Internet access freely and easily. In addition to featuring with WPA2 (802.11i), wireless LAN isolation and WDS (Wireless Distribution System), Vigor3100G models can provide wireless LAN access with line rate as much as 108Mbps with Super G™ by embedding 802.11g compliant wireless module.

- Internet-sharing via G.SHDSL connection that is eight times faster than traditional ADSL speed and providing symmetric bandwidth of up to 2.3 Mbps (4.6 Mbps for 3120) downstream and upstream
- Support both CO and CPE modes for back-to-back application
- Enterprise-grade security features for small and medium office
- Sophistic firewall providing 32 dedicated VPN tunnels for easy deployment of remote branch offices
- Built-in VoIP facilities enable to deploy cost-effective IP telephone infrastructure

Vigor3100 Series can be installed on different campus buildings by connecting with existing telephony wires for the enterprise campus applications. It can enable high-speed symmetrical intranet access between campus buildings for each other. Such application does not require new infrastructure, but it only needs low-cost, easy-to-install and low management on overhead.

#### G.SHDSL Compliance

- G.991.2 Annex A and Annex B
- Up to 2.3 Mbps downstream and upstream
- CPE/CO mode
- Symmetrical WAN speed up to 4.6 Mbps over four wires (for 3120 model)

#### WAN Protocols

- PPP over Ethernet (RFC 2516)
- PPP over ATM(RFC2364)
- Multiple Protocol over ATM

#### VoIP

- Protocol: SIP, RTP/RTCP
- Six SIP Registrars
- G.168 Line Echo-cancellation
- Jitter Buffer (125ms)
- Voice codec:
  - G.711 A/u law
  - G.723.1
  - G.726
  - G.729 A/B
  - VAD/CNG
- FAX/Modem Support :
  - G.711 Pass-through
  - T.38 for FAX
- Supplemental Services :
  - Call Hold/Retrieve/Waiting
  - Call Transfer
  - Call Forwarding (Always, Busy and No Answer)
  - DND (Do Not Disturb)
  - Hotline



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# DrayTek

www.draytek.com

### VPN

- Up to 32 VPN Tunnels
- Protocol: PPTP, IPSec, L2TP, L2TP over IPSec
- DHCP over IPSec
- Encryption: AES, MPPE and Hardware-based DES/3DES
- Authentication: MD5, SHA-1
- IKE Authentication: Pre-shared Key and Digital Signature (X.509)
- LAN-to-LAN, Teleworker-to-LAN
- NAT-Traversal (NAT-T)
- Dead Peer Detection (DPD)
- VPN Pass-through

### Firewall

- IM/P2P Blocking
- Multi-NAT, DMZ Host, Port-redirect / Open Port
- MAC Address Filtering
- Rule-based IP Packet Filtering
- SPI (Stateful Packet Inspection)
- DoS/DDoS Protection
- IP Address Anti-spoofing
- E-mail Alert and Logging via Syslog

### ISDN

- Euro ISDN Compatible
- Automatic ISDN Backup
- Support 64/128Kbps (Multilink-PPP)/ BoD (Bandwidth on Demand)
- Remote Dial-In/LAN-to-LAN Connection
- Remote Activation
- Virtual TA

### QoS (Bandwidth Management)

- Class-based Bandwidth Guarantee by User-defined Traffic Categories
- Support of Four Priority-levels
- DiffServ Codepoint Classifying
- Guarantee Bandwidth for VoIP
- Bandwidth Borrowed

### Content Filter

- URL Key Word Blocking (Whitelist and Blacklist)
- Java Applet, Cookies, Active X, Compressed, Executable, Multimedia File Blocking
- Time Schedule Control
- Web Content Filter (Powered by SurfControl)

### Network Management

- Web-Based User Interface (HTTP/HTTPS)
- Quick Start Wizard
- CLI (Command Line Interface, Telnet/SSH)
- Administration Access Control
- Configuration Backup/Restore
- Built-in Diagnostic Function
- Firmware Upgrade via TFTP/FTP
- Logging via Syslog
- SNMP Management MIB-II

### Network Features

- DHCP Client/Relay/Server
- Dynamic DNS
- SNTP Client
- Call Scheduling
- RADIUS Client
- DNS Cache/Proxy
- UPnP
- Routing Protocol:
  - Static Routing
  - RIP V2

### Wireless Access Point

- Super G™ 108Mbps
- IEEE 802.11b/g Compliant
- Wireless Client List
- Access Point Discovery
- WDS (Wireless Distribution System)
- Wireless LAN Isolation
- Wireless Rate-control
- Wireless Security:
  - 64/128 bits WEP Encryption
  - WPA (Wi-Fi Protected Access), WPA2 Encryption
  - 802.1x User Authentication with RADIUS Client
  - MAC Address Access Control
  - Hidden SSID
  - Wireless VLAN

### USB

- HSDPA USB Modem (for Back-up only)
- USB Printer

### Model Comparison Chart

	2.3Mbps	4.6Mbps	Wireless AP	VoIP	ISDN
Vigor3100	●	—	—	—	—
Vigor3100G	●	—	●	—	—
Vigor3100V	●	—	—	●	—
Vigor3100i	●	—	—	—	●
Vigor3120	—	●	—	—	—



Router Connection