

# Vigor2900V Series

## Broadband Security VoIP Router

- ◆ Easy Internet-sharing of your broadband connection
- ◆ Robust firewall to help protect your network from external attacks
- ◆ Comprehensive VPN facilities to ensure secure remote connections
- ◆ Built-in VoIP facilities enable to deploy cost-effective IP telephone infrastructure.
- ◆ QoS assured priority for VoIP traffic
- ◆ Web Filtering by SurfControl™ to reduce security threats caused by employee's Internet abuse

The Vigor2900V series are highly integrated VoIP broadband routers with VPN capability targeting SOHO(Small Office and Home Office) broadband access requirement. These integrated network access devices not only offer effective VPN functionalities but also two built-in VoIP ports to provide a cost-saving alternative for calls. The integrated economical design makes the ideal balance of ease of use and secure network management.

Originated from previous ICSA Firewall certified platform, Vigor2900V series are more powerful than ever. Besides firewall protection against Denial of Service(DoS) attacks, the Vigor2900V series are designed with more advanced security features such as Stateful Packet Inspection(SPI) to offer network reliability by detecting and prohibiting malicious penetrating packets and Web Filtering by SurfControl™ to manage employee's Internet access and will significantly reduce network abuse threats. Furthermore, embedded with VPN support for confidential remote access, the Vigor2900V series have DES, 3DES encryption engine and automated key management via IKE to easily create up to 32 high-performance VPN tunnels.

Combining the Internet telephony service offered by ITSP such as DrayTEL, the Vigor2900V series charter VoIP calls to be made to any legacy phone numbers, even including mobile and long distance numbers. By making the most of your broadband, the call will be carried to the destination via Internet using internationally recognized VoIP standards so you can save on the telephone bill. The two-FXS-port design allow you to connect telephones, fax machines\* and PBX/KTS systems. Each can be independently configured via friendly software. All VoIP traffic, including communication, provisioning and servicing, can be protected by VPN tunnel for highest security demand. With Vigor2900V series, individuals or companies are able to extend their investment on telephones and conference speakerphones and easily migrate to VoIP system, a more reliable, affordable and incremental investment.

Some of the Vigor2900V series feature the prevailing wireless technology offering data transfer speeds with a maximum wireless signal rate of up to 54Mbps in the 2.4GHz frequency. The Vigor2900V series not only allow streaming video and other high bandwidth applications such as online gaming events to operate without the hassle of wires but also make streaming real-time programs more smooth and enjoyable. For advanced security, the Vigor2900V series provide latest powerful features such as VPN over WLAN, WPA2\* and 802.1x authentication to protect the wireless connection as well.

### VoIP (Voice over IP)

- Supports two FXS(phone) ports
- G.168 Line echo-cancellation
- Gain control
- Jitter buffer
- Voice Codec: G.711 A/  $\mu$  law, G.726, G.723.1, G.729 A/B, VAD/CNG
- Tone generation and detection: DTMF, Dial, Busy, Ring back
- Protocol: SIP, RTP/RTCP

### Virtual Private Network (VPN) Facilities

- up to 32 simultaneous VPN tunnels
- Dial-in or dial-out, LAN-to-LAN or Teleworker-to-LAN
- Protocol support: PPTP, IPSec, L2TP, L2TP over IPSec
- Encryption support: AES, MPPE and hardware-based DES/3DES
- Authentication support: MD5, SHA-1
- IKE key management

### Bandwidth Management Facilities

- Class-based bandwidth guarantee by user-defined traffic categories
- Provision of inbound/outbound bandwidth control
- Support of eight Priority-Levels
- Support of DiffServ-Codepoint marking

### Firewall Facilities

- Stateful packet inspection
- Selectable DoS/DDoS protection
- IP address anti-spoofing
- User-configurable packet filtering
- NAT/PAT with Port Forwarding/Redirection & DMZ
- E-mail alerting mechanism



# DrayTek

# Vigor2900V Series

## Broadband Security VoIP Router

### Wireless Access Point

- IEEE802.11b/g compliant
- Wireless client list
- Wireless security:
  - 64/128 bits WEP encryption
  - WPA/WPA2\* (IEEE802.1i)
  - 802.1x authentication with Radius client
  - MAC address access control
  - Hidden SSID
  - VPN over WLAN
- Access point discovery\*
- Wireless VLAN\*
- Wireless LAN isolation\*
- WDS\*

### Network Features

- DHCP client/relay/server
- Dynamic DNS
- Call schedule
- Radius client
- UPnP

### Router Management

- Web-based User Interface
- Command Line Interface (Telnet)
- Telnet Remote Access Support
- SNMP Agent with MIB-II
- Built-in Diagnostic Function
- Remote Firmware Upgrade
- Quick Start Wizard
- Syslog Monitoring

### Flexible Web Filtering

- Block URL (web-site) by user-defined keywords
- Preclude web surfing from using directly IP address
- Block automatic download of Java applets and Active X controls
- Block web site cookies and proxy
- Block http downloads of file types: Executable/Compressed/Multi-media
- Support time schedule to control the restrictions and regular Internet access
- Web Filtering by SurfControl™

### WAN/Internet

- One 10/100M Base-Tx port with a RJ-45 connector
- DHCP client for cable service
- Static IP address assignment for fixed IP networks
- PPPoE/PPTP client for ADSL service

### LAN

- 4-port 10/100 Base-Tx Ethernet switch
- DHCP server for IP assignment (up to 253 users)
- DNS cache and proxy
- NAT (Network Address Translation)
- Virtual server via port redirection or open port feature
- VLAN support
- Port-based rate throttling capability

### Printer Server

- One USB port connector
- Built-in LPR printer server
- Support for Win98/98SE/ME LPR printer
- Compatible with Win2000/XP/MacOS 9/MacOS X built-in LPR printer driver

\*Future release

### Specifications

WAN	1-port, 10/100 M Base-Tx, RJ-45 connector
LAN	4-port 10/100 Base-Tx switch, RJ-45 connectors
Printer	1-port, USB 1.0 connector
VoIP	2-port FXS, RJ-11 connectors

WLAN	IEEE 802.11b/11g
Max. Power Consumption	DC 15V, 10 Watt
Dimension (mm)	L220* W160* H36.7

