Vigor2850 Series

VDSL2 Security Firewall

DrayTek
www.draytek.com

- VDSL2 with comprehensive Firewall & VPN
- Built-in Giga LAN switch and 802.11n WLAN with selectable 2.4/5 GHz frequency
- Configurable Giga Ethernet WAN port for high speed broadband connectivity
- USB port for network FTP, printer and 3.5G mobile broadband connectivity
- Load-balancing for VDSL2, Giga WAN and 3.5G mobile connectivity
- Multi-subnets for secure and efficient workgroup management

Vigor2850 series as a configurable DSL multimode Security Firewall, which support VDSL2 and ADSL2+ on a single WAN interface including Vigor2850, Vigor2850n and Vigor2850Vn embedded with 1-port VDSL2 WAN (ADSL2/2+ fallback), 1-port Giga Ethernet WAN (configured by LAN4) and 1 USB port for 3.5G USB modem provide flexible and future proof connection choices for current and next generation network (NGN) infrastructure. 4-port Gigabit LAN switch facilitates unified communication applications in business CO / remote site to handle large data from subscribed fatter pipe. The state-of-art routing feature, VPN, security, Dual WAN provides integrated benefits for professional users and small offices.

Flexible WAN interface for load balancing, backup and bandwidth management
In addition to the VDSL2 connectivity, the VDSL2 WAN interface can fall back to ADSL2/2+ connection when VDSL2 service hasn't been provided. On the other hand, administrator can configure LAN4 as Giga Ethernet WAN to connect to ADSL/cable/VDSL2/Ethernet FTTx modem. Plus, users can make the USB port as the 3rd WAN interface via 3.5G mobile broadband. In the connection uptime, these three WAN interfaces including VDSL2, ADSL2/2+, Giga Ethernet WAN and USB WAN can do load-balancing to facilitate bandwidth usage. Moreover, they can do failover backup during downtime. If users have different ISPs to provide internet connection to each WAN interface, they can be complete worry-free even one or two ISPs' service are temporary outage. Besides, its 4-port Gigabit LAN switch can smooth large data transmission of bandwidth consumed applications for today business needs.
Vigor2850 series embedded with tag-based multi-subnet function can satisfy the security needs of distinguishing extranet and corporate intranet by Routine/NAT mode or multiple workgroups by different subnets. Besides, it can configure different subnets to each application, such as VoIP and IPTV to prevent interference.

USB port for 3.5G, FTP and printer server
Not only for 3.5G/4G mobile broadband, USB port also supports printer servers and allows the connection of a USB disk or hard drive for FTP file transfer through the Internet or local networks. The network administrator can set username/password and directory/file access privilege for individual users.

Secured networking
By adopting hardware-based VPN platform and hardware encryption of AES/DES/3DS, the router increases the performance of VPN greatly, and offers several protocols (such as IPSec/PPTP/L2TP) with up to 32 VPN tunnels. The object-based design used in SPI (Stateful Packet Inspection) firewall allows users to set firewall policy with ease. Object-based firewall is flexible and allows your network be safe. DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside. The enterprise-level CSM (Content Security Management) enables users to control and manage IM(Instant Messenger) and P2P (Peer-to-Peer) applications more efficiently.

The CSM hence prevents inappropriate content from distracting employees and impeding productivity. Furthermore, the CSM can keep office networks threat-free and available.
Vigor2850 series support DrayTek's SmartMonitor network activity management application (up to 30 users), which captures actual live data of activities in your managed network, such as the content of MSN entering to or out of your network. You can track specified files download/upload or view statistics on data type activities to realize what corporate related information have been released accidentally or on purpose.

Easy-to-manage and configurable WLAN
Vigor2850n and Vigor2850Vn are embedded with IEEE802.11n WLAN. Besides the encryption methods of WEP/WPA/WPA2 and MAC address control, it also offers wireless LAN isolation, Wireless VLAN and 802.1X authentication. WDS (Wireless Distribution System) can help users extend wireless coverage easily. Moreover, the wireless rate control can adjust the connection rate of each wireless station. The WMM (Wi-Fi multimedia) keeps the priority of voice, video and audio applications in a Wi-Fi network and lowers priority of other network traffic, which is not time-critical such as large file downloading.
Selectable 5G/2.4GHz configuration of Vigor2850n and Vigor2850Vn provides extra choice for SMB to build the WLAN network. In addition to the common 2.4GHz frequency, SMB can configure WLAN network on less congested 5GHz spectrum.

Integration of telephony
Vigor2850Vn provides twin analogue phone and one line port (life line). It supports multiple SIP Registrars with high flexible configuration and call handing options. You can connect your regular analogue line (PSTN/POTS*) to the Line port of Vigor2850Vn. While you enable VoIP facility, you still can access fixed line (analogue line) to make calls just by dialing #0. The phone connected to Line port and two FXS ports can be used for both analogue calls and VoIP calls because the incoming calls are automatically switched through to your telephone(s) (either one or both). As a result, both analogue telephones plugged into your router allow you to access VoIP and analogue line. Furthermore, you can set rules through "Digit Map" function about particular call destinations using either your SIP/VoIP service or the POTS line.
e.g. you can route local calls via your PSTN line (if you have a free calls package) whereas international calls go via your preferred VoIP provider; there is flexibility to have several Digit Map rules.

VDSL2　　Dual Band　　3.5 G Support USB Modem　　VPN　　VoIP

Vigor2850 Series
VDSL2 Security Firewall

DrayTek

VDSL2

- Compliant with ITU-T VDSL2 G.993.2
- Compliant with ITU-T G.993.1, G.997.1
- Band Plan: G.998, G.997
- Annex A, Annex B, Annex C
- VDSL2 Profile: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a
- OLR Supported
- UPBO, DPBO Supported
- US0 Supported
- Loop Diagnostic Mode
- Compatible with POTS, ISDN
- Configurable SNR, INP, Rate Limit

WAN Protocol

- VDSL2 (WAN-1)
  - DHCP Client
  - Static IP
  - PPPoE / PPTP* / L2TP*
  - 802.1q Multi-VLAN Tagging
- Giga Ethernet (LAN4 Configured as WAN-2)
  - DHCP Client
  - Static IP
  - PPPoE / PPTP / L2TP
  - 802.1q Multi-VLAN Tagging*
- USB (WAN-3)
  - PPP

Multi-WAN

- Outbound Policy-based Load-balance
- WAN Connection Failover

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/HTTP/TR-069
- Logging via Syslog
- SNMP Management MIB-II
- Management Session Time Out
- 2-level Management (Admin/User Mode)
- TR-069
- TR-104

Firewall

- Multi-NAT, DMZ Host, Port-redirection and Open Port
- Object-based Firewall
- MAC Address Filter
- SPI (Stateful Packet Inspection) (Flow Track)
- DoS/DDoS Prevention
- IP Address Anti-spoofing
- E-mail Alert and Logging via Syslog
- Bind IP to MAC Address
- Time Schedule Control
- Firewall v3

USB

- 3.5G (HSDPA) as WAN-3
- Printer Sharing
- File System :
  - Support FAT32/FAT16 File System
  - Support FTP Function for File Sharing

CSM (Content Security Management)

- IM/P2P Application V3 (App Enforcement)
- GlobalView Web Content Filter (Powered by com*touch*)
- User Management
- URL Content Filter :
  - URL Keyword Blocking (Whitelist and Blacklist)
  - Java Applet, Cookies, Active X, Compressed, Executable, Multimedia File Blocking
  - Excepting Subnets
  - Time Schedule Control

VPN

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

Network Feature

- Packet Forwarding Acceleration
- DHCP Client/Relay/Server
- IGMP Version 2 and Version 3
- Dynamic DNS
- NTP Client
- Call Scheduling
- RADIUS Client
- UPnP 30 sessions
- Multiple Subnets
- VLAN Tagging (802.1q) on LAN
- Routing Protocol:
  - Static Routing
  - RIP V2

VoIP (V model)

- Protocol: SIP, RTP/RTCP
- 12 SIP Registrars
- G.168 Line Echo-cancellation
- Automatic Gain Control
- Jitter Buffer (180ms)
- Voice codec:
  - G.711 • G.723.1 • G.726
  - VAD/CNG • iLBC
- DTMF Tone :
  - Inband • Outband (RFC-2833) • SIP Info
- FAX/Modem Support :
  - Tone Detection • G.711 Pass-through
- Supplemental Services :
  - Call Hold/Retrieve/Waiting
  - Call Waiting with Caller ID
  - Call Transfer
  - Call Forwarding (Always, Busy and No Answer)
  - Call Barring (Incoming/Outgoing)
  - DND (Do Not Disturb)
  - MWI (Message Waiting Indicator) (RFC-3842)
  - Hotline
- Dial Plan :
  - Phone Book
  - Digit Map

Bandwidth Management

- QoS :
  - Guarantee Bandwidth for VoIP
  - Class-based Bandwidth Guarantee by User-defined Traffic Categories
  - DiffServ Code Point Classifying
  - 4-level Priority for Each Direction (Inbound /Outbound)
  - Bandwidth Borrowed
- Bandwidth/Session Limitation
- Layer-3 (TOS/DSCP) QoS Mapping

Switch

- Port-based VLAN
- Triple-Play Application
  - IGMP Snooping
  - Tag-based (802.1q) VLAN
  - Layer-2 (802.1p) QoS

Wireless AP (n model)

- Support Dual Band 2.4/5G Configurable (Configurable/Not Simultaneous)
- IEEE802.11n Compliant
- Wireless Client List
- Wireless LAN Isolation
- 64/128-bit WEP
- WPA/WPA2
- Hidden SSID
- WPS
- MAC Address Access Control
- Access Point Discovery
- WDS (Wireless Distribution System)
- 802.1x Authentication
- Multiple SSID
- Wireless Rate-control
- IEEE802.11e: WMM (Wi-Fi Multimedia)
- SSID VLAN Grouping with LAN Port

Hardware Interface

- 4 x 10/100/1000Base-Tx LAN Switch, RJ-45 (LAN 4 is configurable as Ethernet WAN)
- 1 x VDSL2 Port, Support Fallback to ADSL2/2+ , RJ-11(WAN1)
- 3 x Detachable Antennas (n Model)
- 2 x FXS Port, RJ-11 (V Model)
- 1 x Life line Port, RJ11 (V Model)
- 1 x USB Host 2.0 (for Printer/3.5G USB Modem)
- 1 x Factory Reset Button
- 1 x Wireless On/ Off/ WPS Button

* Firmware Upgradeable

	VoIP	WLAN
Vigor2850 Vn	•	•
Vigor2850 n		•
Vigor2850		

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