

Vigor2860 Series

VDSL2 Security Firewall



- ADSL2+/VDSL2, Gigabit Ethernet WAN port, Dual USB ports for failover and load-balancing
- Two USB ports for connection to Two 3.5G/4G LTE USB mobiles, FTP server and network printer
- 6 x Gigabit LAN ports with multiple subnets
- Object-based SPI Firewall and CSM (Content Security Management) for network security
- VLAN for secure and efficient workgroup management
- 32 VPN tunnels with comprehensive secure protocols
- VPN load-balancing and backup for site-to-site applications
- Integrated with IEEE 802.11ac wireless access point (5th Generation of Wi-Fi, for ac models) (Vigor2860n, Vigor2860n-plus and Vigor2860Vn-plus are with IEEE802.11n WLAN)
- Embedded Central VPN Management for 8 remote Vigor routers
- Embedded Central AP Management for multi-deployed Vigor wireless access points
- Working with Smart Monitor Network Traffic Analyzer
- Working with VigorACS SI Central Management for multi-site deployment

Vigor2860 Combo WAN Router series are designed with the IPv6 ready ADSL2+/VDSL2 WAN, One Gigabit Ethernet WANs and Dual USB WANs. The product range is from Vigor2860, Vigor2860n, Vigor2860n-plus, Vigor2860Vn-plus, Vigor2860ac, and Vigor2860vac.

It ensures the business continuity for today and the future IPv6 network. Its ADSL2+/VDSL2 WAN can let you connect ADSL2/2+ or VDSL2 line. Its gigabit Ethernet WAN port can accept various high-speed Ethernet-based WAN links via FTTx/xDSL/Cable. The two USB ports are for 3.5G/4G LTE mobile broadband access. With the multi-WAN accesses, Vigor2860 series routers provides flexible and reliable broadband connectivity for the small business office. The VPN backup and VPN load balancing assures business continuity via multi-WAN connection to the Internet. The bandwidth management, Quality of Service, VLAN for flexible workgroup management, User Management for authentication, Route Policy, Central VPN Management, Central AP Management and Firewall serve your daily office network to bring in more business opportunities. The firmware version 3.8.0 will allow Multi WAN/ Multi LAN to support IPv6 in order to let network administrator easily set up more IP-based applications.

The Gigabit Ethernet WAN port for failover and load-balancing

The Gigabit Ethernet WAN port caters for any type of Internet access, including FTTx, xDSL and Cable fitting your local infrastructure. You can then use both WAN 1 (ADSL2+/VDSL2) and WAN 2 for failover, ensuring that you will always have an access to the Internet even if one of the WAN fails, or for load-balancing so the 2 WANs share Internet traffic requirements of your organization.

Two USB 2.0 ports for 3.5G/4G LTE USB mobiles, FTP drive and network printer

The two USB ports can be used for the connection of 3G/4G LTE

USB mobiles mobile, FTP drive and network printers. A 3.5G/4G USB mobile connected to one of the 2 USB ports can be used as a second WAN. The two USB ports can work as Dual USB WAN ports when you connect two USB mobiles to the USB ports. The USB WAN interface can also be the primary access if the local fixed line service hasn't been deployed yet. You can have two 3.5G/4G USB mobiles connected to the USB ports, and assign one of these (WAN 3) to be the primary access and the other (WAN 4) as the fail-over back-up. And, you have the flexibility to convert back to fixed line services when these become available.

The Vigor2860 series provide you with FTP access file uploading/downloading, which can be used from the local LAN or from anywhere on the Internet. The access can be using "username and password" or "public". Each of them can have their own directories and/or file access rights. If your office network requires printer, you can connect one network printer to one of the two USB ports.

Flexible Network Management

Like all DrayTek routers, Vigor2860 Series routers support comprehensive network management functions. For example, you can set username/password and directory/file access privilege for individual users as required. There are also routing/network tables, system log, debugging utilities, etc., making network administrators' jobs easy.

Other management features include SNMP, TR-069 and TR-104. TR-069 can be utilized with DrayTek's VigorACS SI management software to remotely monitor and manage the Vigor2860 series.

There are many nodes of license for deploying VigorACS SI Central Management. Through "Self-hosted" or "Cloud-based" subscription, the remotely-deployed DrayTek Vigor routers can be managed for firmware upgrade, VPN establishment, real-time monitoring and obtain proper customer care.

VDSL2/ADSL2/2+

- ITU-T G.993.2 (VDSL2)
- ITU-T G.992.1/3/5 (ADSL1/2/2+) Annex A & Annex B
- DSL Forum Performance Specification: ADSL TR-048/67, TR-100; VDSL: WT-114
- Erasure Decoding, Increased Interleaver Depth and Re-transmission
- EFM (IEEE 802.3 ah)
- VDSL2 Profile: up to 30a

WAN Protocol

- DSL (WAN-1)/Giga Ethernet (WAN-2)
 - DHCP Client
 - Static IP
 - PPPoE
 - PPTP/L2TP (WAN-2 only)
 - PPPoA (ADSL2 only)
 - 802.1q Multi-VLAN Tagging
- USB (WAN-3)
 - PPP/DHCP
- IPv6
 - Tunnel Mode: TSPC, AICCU, 6rd, 6in4 Static Tunnel
 - Dual Stack: PPP, DHCPv6 Client, Static IPv6

Multi-WAN

- Load-Balance/Route Policy (The VDSL2/ADSL2+ interface, Gigabit Ethernet interface and USB mobile can be used either for WAN-backup or load balancing.)
- WAN Connection Failover

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
- SSL VPN: 16 Tunnels
- VPN Trunk (Load Balancing/Backup)

Network Feature

- Packet Forwarding Acceleration
- DHCP Client/Relay/Server
- IGMP Snooping/Proxy V2 and V3
- Triple-Play Application
- Dynamic DNS
- NTP Client
- Call Scheduling
- RADIUS Client
- DNS Cache/Proxy and LAN DNS
- UPnP 30 sessions
- Multiple Subnets
- Port-based/Tag-based VLAN (802.1q)
- Routing Protocol:
 - Static Routing
 - RIP V2

CSM (Content Security Management)

- IM/P2P Application
- GlobalView Web Content Filter (Powered by **CYREN**)
- URL Content Filter :
 - URL Keyword Blocking (Whitelist and Blacklist)
 - Java Applet, Cookies, Active X, Compressed, Executable, Multimedia File Blocking
 - Excepting Subnets

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-2 (802.1p) and Layer-3 (TOS/DSCP) QoS Mapping

VoIP (V model)

- Protocol: SIP, RTP/RTCP
- 12 SIP Registrars
- G.168 Line Echo-cancellation
- Jitter Buffer
- Voice codec:
 - G.711 • G.723.1 • G.726
 - G.729 A/B • VAD/CNG
- 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
- Secure Phone (ZRTP + SRTP)
- PSTN Loop-through When Power Failure
- Dial Plan :
 - Phone Book • Digit Map • Call Barring
 - Regional

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/HTTP/TR-069
- Logging via Syslog
- SNMP Management MIB-II
- Management Session Time Out
- 2-level Management (Admin/User Mode)
- TR-069
- TR-104
- LAN Port Monitoring
- Support Smart Monitor (30)
- Central AP Management
- Central VPN Management (Up to 8 Remote Routers)

Firewall

- Multi-NAT, DMZ Host, Port-redirection and Open Port
- Object-based Firewall, Object IPv6, Group IPv6
- 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
- User Management

USB

- 3.5G (HSDPA) and 4G (LTE) as WAN
- Printer Sharing
- File System :
 - Support FAT32 File System
 - Support FTP Function for File Sharing

Wireless AP (n, ac model)

- 802.11ac, 1300Mbps, Wireless Access Point (ac model)
- 802.11n WLAN with Concurrent 2.4/5 GHz Frequency (n-plus model)
- 802.11n WLAN with Single Band 2.4 GHz Frequency (n model)
- Wireless Client List
- Wireless LAN Isolation
- 64/128-bit WEP
- WPA/WPA2
- Wireless Wizard
- 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 (Port-based VLAN)
- V2860n
 - b/g/n Frequency: 2.400 - 2.4835GHz
 - Antenna Power: 20 dBm(EIRP)
- V2860Vn-plus
 - b/g/n Frequency: 2.400 - 2.4835 GHz
 - Antenna Power: 20 dBm(EIRP)
 - n Frequency: 5.150 - 5.350GHz
 - Antenna Power: 23 dBm(EIRP)
- V2860Vac
 - b/g/n Frequency: 2.400 - 2.4835 GHz,
 - Antenna Power: 20 dBm(EIRP)
 - ac Frequency: 5.150 - 5.350GHz
 - Antenna Power: 23 dBm(EIRP)

Hardware Interface

- 1 x VDSL2/ADSL2/2+ WAN Port (WAN1), RJ-11 for Annex A/RJ-45 for Annex B
- 1 x 10/100/1000Base-Tx, RJ-45 (WAN2)
- 6 x 10/100/1000Base-Tx LAN Switch, RJ-45
- 2 x Detachable Antennas (n Model)
- 3 x Detachable Antennas (n-plus & ac Model)
- 2 x FXS and 1 x Life Line Port, RJ11 (V Model)
- 2 x USB Host 2.0
- 1 x Factory Reset Button
- 1 x Wireless On/ Off/ WPS Button