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 Retransmission
 EFM (IEEE 802.3 ah)
 VDSL2 Profile: up to 30a

WAN Protocol

- DSL (WAN-1)/Giga Ethernet (WAN-2)
 DHCP Client
- PPPoA (ADSL2 only)
 802.1q Multi-VLAN Tagging

PPTP/L2TP (WAN-2 only)

- USB (WAN-3) · PPP/DHCP
- Tunnel Mode: TSPC, AICCU, 6rd, Static 6in4
 Dual Stack: PPP, DHCPv6 Client, Static IPv6

Multi-WAN

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

- Up to 32 VPN Tunnels
 Protocol: PPTP, IPsec, L2TP, L2TP over IPsec
 Encryption: MAPE and Hardware-based
 AES/DES/3DES
- Authentication : MD5, SHA-1 IKE Authentication : Pre-shared Key and
- Digital Signature (X.509) LAN-to-LAN, Teleworker-t

- Teleworker-to-LAN
- DHCP over IPsec
- IPsec NATtraversal (NAT-T)
 Dead Peer Detection (DPD)
 VPN Pass-through

VPN Wizard

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

- Configuration Backup/Restore

 Packet Forwarding Acceleration *
 DHCP Client/Relay/Server
 IGMP Snooping/Proxy V2 and V3 Network Feature

Triple-Play Application Dynamic DNS

NTP Client

- DNS Cache/Proxy and LAN DNS UPnP 30 sessions
- Port-based/Tag-based VLAN (802.1q)
- Static Routing RIP V2
- Multiple Subnets
- RADIUS Client
- Call Scheduling

CSM (Content Security Management)

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

Bandwidth Management

- Guarantee Bandwidth for VoIP Class-based Bandwidth Guarantee by
- User-defined Traffic Categories
 DiffServ Code Point Classifying
 4-level Priority for Each Direction (Inbound
- Bandwidth Borrowed
- Bandwidth/Session Limitation Layer-2 (802.1p) and Layer-3 (TOS/DSCP) QoS Mapping

Wireless AP (n model)

- 802.11n WLAN with Single Band 2.4 GHz 802.11n WLAN with Concurrent 2.4/5 GHz
- Frequency (n model) Wireless Client List
- Wireless LAN Isolation
- 64/128-bit WEP WPA/WPA2
- Wireless Wizard
- MAC Address Access Control

- Access Point Discovery
 WDS (Wireless Distribution System)
 802.1 x Authentication
 Multiple SSID
- Wireless Rate-control
 IEEE802.11 e: WMM (Wi-Fi Multimedia)
 SSID VIAN Graphing with LAN Port
- (Port-based VLAN)

Network Management

- Quick Start Wizard Web-based User Interface (HTTP/HTTPS)
- CLI (Command Line Interface, Telnet/SSH)

- Firmware Üpgrade via TFTP/FTP/HTTP/TR-069
- Logging via Syslog SNMP Management MIB-II Management Session Time Out
- 2-level Management (Admin/User Mode)
- 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
- Object-based Firewall, Object IPv6, Group IPv6
- SPI (Stateful Packet Inspection) (Flow Track) MAC Address Filter
- DoS/DDoS Prevention
- IP Address Anti-spoofing
- E-mail Alert and Logging via Syslog Bind IP to MAC Address
- User Management Time Schedule Control

- 3.5G (HSDPA) and 4G (LTE) as WAN Printer Sharing
- File System
- Support FTP Function for File Sho
 Support Samba for File Sharing Support FAT32 File System for File Sharing
- LTE USB mobile Support List Please Contact support@draytek.com
- 12 SIP Registrars G.168 Line Echo-cancellation Protocol: SIP, RTP/RTCP

VoIP (Vn-plus model)

- Jitter Buffe
- DTMF Tone G.711 • G.723.1 • G.726 • G.729 A/B • VAD/CNG
- nband Outband (RFC-2833) SIP Info
- FAX/Modem Support Tone Detection • G.711 Pass-through • T.38
- Supplemental Services Call Hold/Retrieve/Waiting
 Call Waiting with Caller ID*
- Call Forwarding (Always, Busy and No Answer)
 Call Barring (Incoming/Outgoing)
 DND (Do Not Disturb)
- PSTN Loop-through When Power Failure Secure Phone (ZRTP + SRTP) (Message Waiting Indicator) (RFC-3842)
- Dial Plan
- Phone Book Digit Map Call Barring

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 IX, RJ-45 (WAN2)

 6 x 10/100/1000Base IX, RJ-45 (WAN2)

 6 x 10/100/1000Base IX, MS with, RJ-45

 2 x Detachable Antennas (In-Mus Model)

 3 x Detachable Antennas (In-Mus Model)

 2 x FXS and 1 x Life Line Port, RJ11 (Vn-plus Model)

 2 x USB Host 2 0

 1 x Factory Reset Button

 1 x Wireless On/ Off/ WPS Button

* Firmware Upgradeable

DrayTek







Vigor2860 Series

VDSL2 Security Firewall

- Fail-over and Load Balancing with a second WAN through a Gigabit Ethernet WAN port
- Object-based SPI Firewall and CSM (Content Security Management) for network security
- 2 USB ports for 3G/4G mobile, FTP server and network printers32 VPN tunnels with comprehensive secure protocols
- VLAN for secure and efficient workgroup management
- 6 x Gigabit LAN ports

Enterprise class IEEE 802.11n WLAN AP

- VoIP for cost-effective communication (Vn-plus)
- Support Smart Monitor Traffic Analyzer (30-nodes)
- Flexible Network Management

WANs with in-depth bandwidth management are ideal for broadband connectivity of SMBs. With the multi-WAN broadband operators involved in rural broadband tenant connections, especially for FTTx-MDU, mobile The Vigor2860 Combo WAN series Routers provide multi WAN ports, ADSL2+/VDSL2/Gb Ethernet and 3G/4G LTE flexible broadband connectivity for small to large Balancing, making them ideal solutions for reliable and management functions such as Fail-over and Load accesses, Vigor2860 routers support bandwidth deployments. Its fail over and load balance over different USB configurable WAN to allow simultaneous convergent

configuration and call handing options. supports multiple SIP Registrars with high flexible management, and much more. Vigor2860Vn-plus has twin by modern day businesses, including secure but easy to analogue phone ports and one line port (life line). It and network printers, VLAN for flexible workgroup ports, USB ports for 3G/4G mobile dongles, FTP servers apply firewall, comprehensive VPN capability, Gigabit LAN The specifications cover many functions that are required

Built-in VDSL2 and ADSL2+ modems

VDSL2 is not available, your router can fall back to Besides, in ISP/Telco upgrades from current ADSL2+ technology. You have the flexibility of migrating to VDSL2 when your case you move to a new location where

Gigabit Ethernet WAN Fail-over and Load Balancing with a second

The Gigabit Ethernet WAN port caters for any type of Internet access, including ADSL, Cable or Satellite Fail-over, ensuring that you will always have an access to broadband. You can then use both WAN 1 and WAN 2 for

> Balancing so the 2 WANs share Internet traffic the Internet even if one of the WAN fails, or for Load requirements of your organization.

Comprehensive VPN

VPN trunking, you can create multiple WAN connections to a remote site in order to increase bandwidth. The VPN trunking also can allow you to have failover (backup) backup) are hence implemented on Vigor2860 series. With port and Gigabit Ethernet port for WAN load-balancing and backup. The VPN trunking (VPN load-balancing and VPN maintaining maximum router performance. Teleworkers can hash of SHA-1/MD5 are seamlessly handled, thus communication. With a dedicated VPN co-processor, the For remote teleworkers and inter-office links, Vigor2860 VPN route through a secondary WAN connection. preferred. The Vigor2860 series are equipped physical DSL be authenticated directly with your LDAP server hardware encryption of AES/DES/3DES and hardware key IPSec/PPTP/L2TP protocols) for secure data exchange and series provide up to 32 simultaneous VPN tunnels (such as

series allows up to 16 simultaneous incoming users. tunnel mode or Proxy mode. After F/W 3.7.3, the Vigor2860 online bank. The SSL VPNs can be operated in either encryption that you use for secure web sites such as your network or web cafe. The SSL technology is same as the VPN connection back to your main office even in a guest manually. From regular web browser, you can establish With SSL VPN, Vigor2860 series let teleworkers have The teleworkers do not need to install any VPN software convenient and simple remote access to central site VPN

application Vigor2860 series for host-to-LAN (remote dial-in) There are up to 16 simultaneous Open VPN tunnels



Centralized Management

With F/W 3.7.3, the embedded Central VPN Management (CVM) will let network administrator register up to 16 remote routers but run concurrent remote management over 8 remote routers.

AP Management

APM provides the 3-step installation, plug-plug-press, and then wireless clients are able to enjoy surfing internet. Moreover, through the unified user interface of Draytek routers, the status of APs is clear at the first sight.

Multi-subnets

With the 6-port Glgabit switch on the LAN side provides extremely high speed connectivity for the highest speed local data transfer of any server or local PCs. The tagged VLANs (802.1q) can mark data with a VLAN identifier. This identifier can be carried through an onward Ethernet switch to specific ports. The specific VLAN clients can also pick up this identifier as it is just passed to the LAN. You can set the priorities for LAN-side QoS. You can assign each of VLANs to each of the different IP subnets that the router may also be operating, to provide even more isolation. The said functionality is tagt-based Multi-subnet.

On the Wireless-equipped models (Vigor2860n/Vigor2860n plus/Vigor2860Vn plus) each of the wireless SSIDs can also be grouped within one of the VLANs.

Multi-task USB functionalities

Through mobility, brought by cellular networks, you can connect 3.5G/4G USB mobile to 2.0 version USB port on Vigor2860 series. This can be a backup broadband connection if the primary fixed line drops. You can connect USB disk or hard-drive to USB port for memory storage and file sharing. 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. The VDSI2/ADSI.2+ interface, Gigabit Ethernet interface and USB mobile can be used either for WAN-backup or load balancing.

DrayTek IPv6 solutions

We support Dual Stack (PPP, DHCPv6 Client, Static IPv6) and Tunnel Mode (TSPC, AICCU) to let your business operation successfully be migrated to the era of IPv6.

Secured networking

DrayTelk Vigor2860 series inherited versatile firewall mechanism from previous Vigor series routers. 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.

By adoption of the world-leading Commtouch GlobalView Web Content Filtering, you can block whole categories of web sites (e.g. sports, online shopping), subject to an annual subscription to the Commtouch GlobalView WCF, which is timely updated with changed or new site categorizations. A free 30-day trial can be activated via activation wizard of WUI.

The "User Management" implemented on your router firmware can allow you to prevent any computer from accessing your Internet connection without a username or password. You can set scheduler or maximum usage time to your employees within office network. The user accounts can also be restricted by any other aspect of the firewall rule on a user-by-user basis.

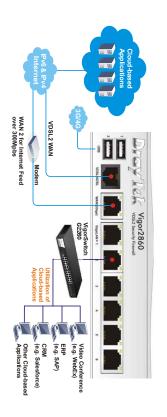
Vigor2860 series support DrayTek's SmartMonitor network traffic analyzer (up to 30 users), which captures actual live data of activities in your managed network, such as the content of MSN entering to or out of your network. You can track specified files download/upload or view statistics on data type activities to realize what corporate related information have been released accidentally or on purpose.

		7 WLAN I	Ź
	VolP	2.4 GHz 5 GHz	5 GHz
Vigor2860 Vn-plus	•	•	•
Vigor2860 n-plus		•	•
Vigor2860n		•	
Vigor2860			

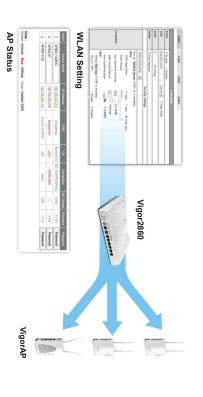
VPN Trunk



Cloud-based Business Applications Utilization



Central AP Management



Central VPN Management

