GUIDE YOUR WAY TO GORGEOUS WORLD

VIGOROUS BROADBAND ACCESS

Dray Tek

DrayTek

About DrayTek

DrayTek is a world-famous supplier of unique networking solutions ranging from enterprise-level firewalls, mission-critical VPN facilities for SoHo, various xDSL / broadband CPE, to prospective telecommunications products. We always keep up with market trends and properly adjust marketing orientation and strategies of product development to fulfill our customers' requirements in time.

DrayTek puts great efforts into channel cultivation all over the world, whose scope includes distributors, system integrators (SIs), value-added resellers (VARs), and retailers / wholesalers. A number of ISPs / telco operators have incoporated DrayTek products into their own portfolio.

Since its establishment in 1997, DrayTek has been focusing on providing comprehensive and economical remote access solutions for SME and professional users. Thanks to its outstanding know-how and rich experience in the field of networking communication, we are able to come up with customized solutions based on various demand from different markets, which makes DrayTek one of few manufacturers that comes into prominence with own brand business on the Continent.
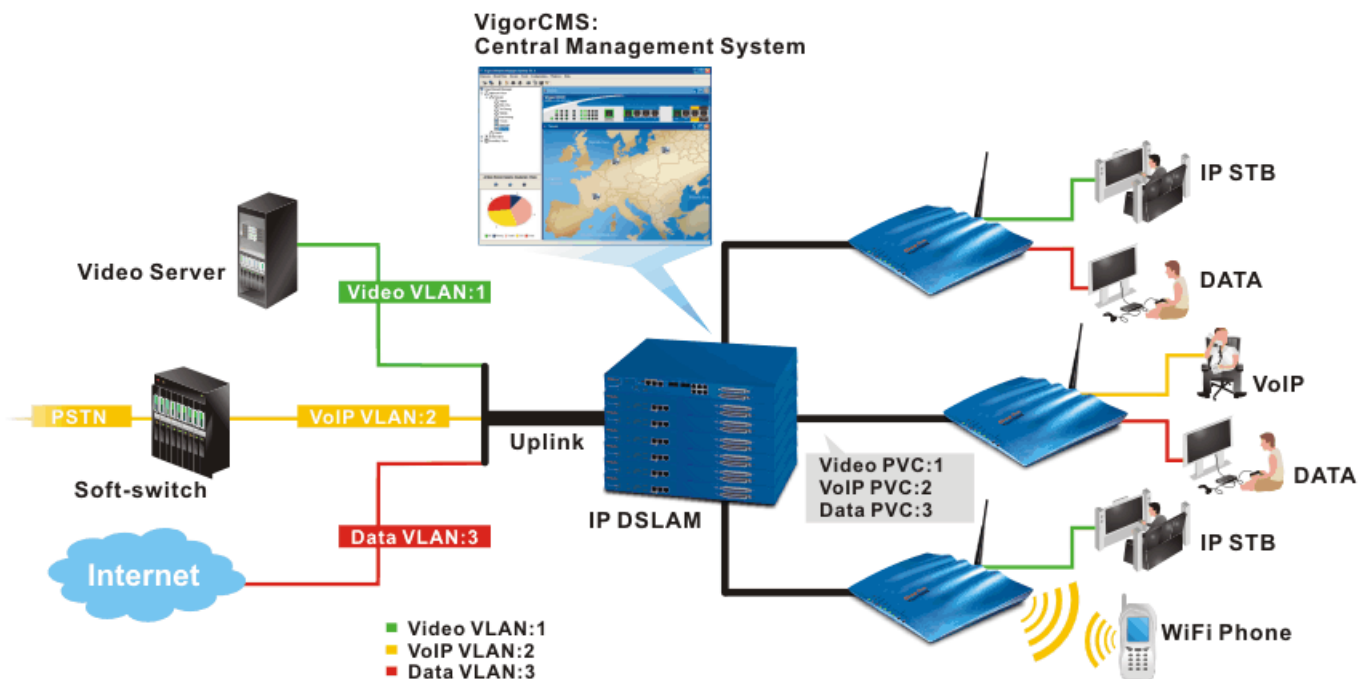

Vigor Your Life !

Multi-Play

The group of triple-play and quadruple-play, where wireless communication is used as another medium to carry video, internet and voice contents, is called Multi-play. To satisfy the needs for Multi-play applications, DrayTek provides a flexible solution for service providers to deploy multiple services upon the converged network.

The configurable priority mapping for PVC and QoS queues for IP Video, VoIP and data handling design well adapt to the mission-critical application of Multi-play services. This solution also includes powerful network provision and management capabilities.

Solution for Multi-Play

DrayTek VigorAccess series can offer services in current POTS wiring closets without new wiring. The maximum 24Mbps downstream, multiple PVCs, QoS, IGMP snooping and multicast capabilities help ISP (Internet Service Provider) offer various value-added services promptly.

The auto provisioning function or remote step-by-step configuration wizard, remote management, remote diagnostic, fault management and backup / restore management also enable administrators to deploy large numbers of devices on the customer's site easily.

VigorCMS: Central Management System

Video Server

Video VLAN:1

PSTN

VoIP VLAN:2

Soft-switch

Uplink

Data VLAN:3

Internet

IP DSLAM

Video PVC:1
VoIP PVC:2
Data PVC:3

■ Video VLAN:1
■ VoIP VLAN:2
■ Data VLAN:3

IP STB

DATA

VoIP

DATA

IP STB

WiFi Phone

VoIP

VoIP

DrayTek has implemented VoIP functionality to most of Vigor router series, ranging from the basic one port Analog Telephone Adapter device, xDSL IAD, broadband VPN firewall, to enterprise-level VoIP security gateway with up to 4-8 FXS / FXO ports. In addition to the FXS and FXO VoIP interface for POTS, DrayTek will also support ISDN S0 interface in new DrayTek Vigor models.

Solution for VoIP

The DrayTek VoIP routers are easily to integrate with analog phone and PBX system with IP network. The DrayTek VoIP solution enables the convergent of voice and data network and provides a cost-effective solution for next generation communication.

The voice quality is always of utmost concern to VoIP, to address which DrayTek also provides QoS (Quality of Service) mechanism for all VoIP models. QoS will ensure that VoIP packets always receive the highest priority for quality voice communication.
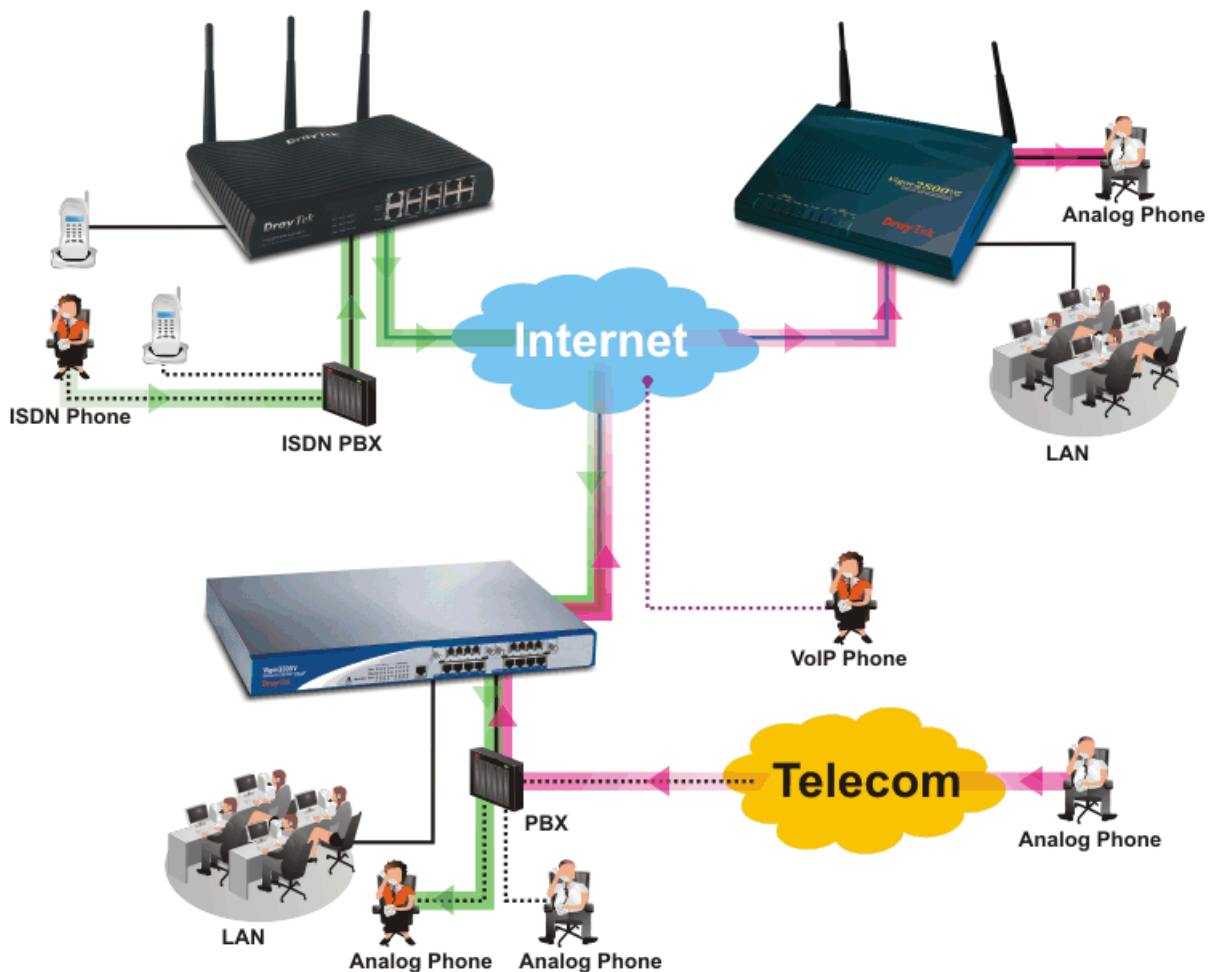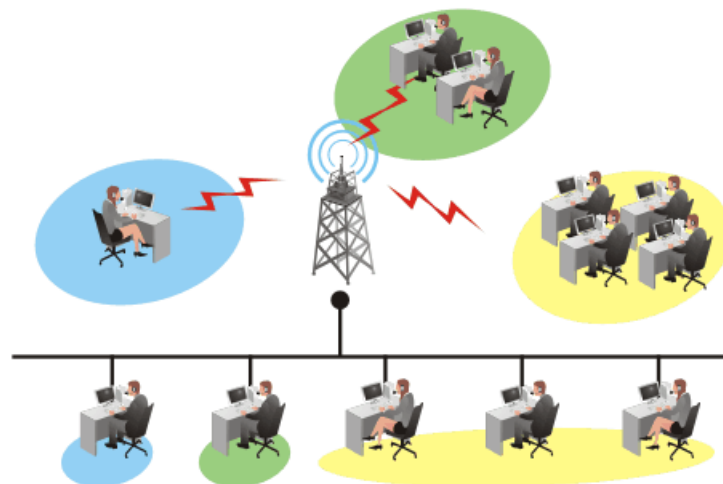
Wireless

DrayTek provides an assortment of wireless networking equipment, ranging from the basic one compliant with IEEE 802.11g standard, to the enhanced version by means of Packet-overdrive or Super G™. The specification of innovative 802.11n is about to be finalized and approved soon, and DrayTek will follow the trend and launch corresponding new models.

Solution for Wireless

It is also common practice to isolate wireless clients of different groups within wireless networks. DrayTek's Vigor routers can seperate wired and wireless networks, even users from internal and external wireless networks can be segmented by MAC address, wireless VLAN with the help of username and password, and multiple SSID. Besides, the access speed of each wireless client can be restricted as well.

With the popularity of wireless networks, the security of wireless networks remains a major concern. To address this issue, DrayTek's solutions offer not only WEP / WPA / WAP2 encryption, but also MAC address filtering and 802.1X authentication.

Considering limited coverage of wireless networks, to enhance their reach, you can apply WDS (Wireless Distribution System) to connect to various access points and WEP / AES encryption for secure transmission.
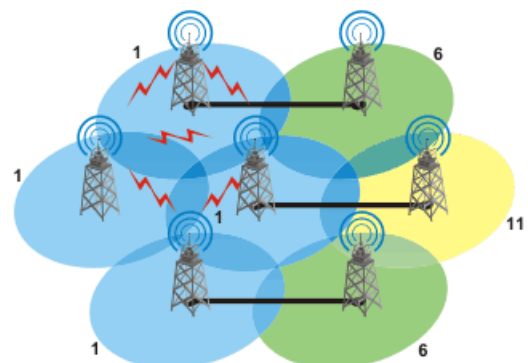
Internet

Wireless Security
* WPA/ WPA2
* 64/128 bit WEP Encryption
* MAC Address Blocking
* Hidden SSID
* 802.1X Authentication

RADIUS

WEP Key1:AB312

WPA/802.1X

WPA2 PSK:cfgs0a12

Vigor2100

NAT Firewall Router

- Easy Internet-Sharing of broadband connection
- Robust firewall
- VoIP capability with 1 FXS ports
- QoS assured priority for VoIP Internet traffic
- 802.11g Compliant WLAN (for G model)

Hardware Interface

- 1 x WAN port, RJ-45
- 4 x LAN ports, RJ-45
- 1 x FXS , RJ-11 (for V model)
- 1 x Detachable antenna (for G model)
- 1 x Reset Button

	VoIP	Wireless AP
Vigor2100G	—	◉
Vigor2100V	◉	—
Vigor2100VG	◉	◉

Broadband

Broadband is a general term used to describe high-speed access to the Internet. With a broadband connection, Internet users have greater capacity to take advantage of online resources. In essence, a broadband service enables users to download more information, quickly.

Broadband has become an essential tool. Websites with exciting graphics, sound and video attract us and it won't take too long before applications that rely on broadband are commonplace.

Vigor2104/p

NAT Router

- Easy Internet Access via broadband technology for SOHO
- NAT Pass-through function
- Built-in Firewall to increase system security
- DDNS for users to enhance a free Domain Name
- Embedded UPnP (Universal Plug & Play) Internet gateway device
- Built-in print server (for p model)

Hardware Interface

- 1 x WAN port, RJ-45
- 4 x LAN ports, RJ-45
- 1 x Parallel port for Printer (for p model)
- 1 x Reset Button

	Print
Vigor2104	—
Vigor2104p	◉

Vigor2910

Dual-WAN Security Router

- Dual-WAN with load balance and redundancy
- 32 VPN tunnels
- Policy-based firewall
- CSM (Content Security Management)
- Bandwidth management
- QoS for high VoIP quality
- ISDN loop through (for VGi model)
- ISDN On/Off-Net (for VGi model)

Hardware Interface

- 2 x WAN ports, RJ-45
- 3 x LAN ports, RJ-45
- 1 x USB port for printer server connection
- 2 x FXS , RJ-11 (for V model)
- 1 x ISDN, RJ-45 (for i model)
- 2 x Detachable antenna (for G model)
- 1 x Reset Button

	VoIP	ISDN	Wireless AP
Vigor2910	—	—	—
Vigor2910i	—	◉	—
Vigor2910G	—	—	◉
Vigor2910V	◉	—	—
Vigor2910VG	◉	—	◉
Vigor2910VGi	◉	◉	◉
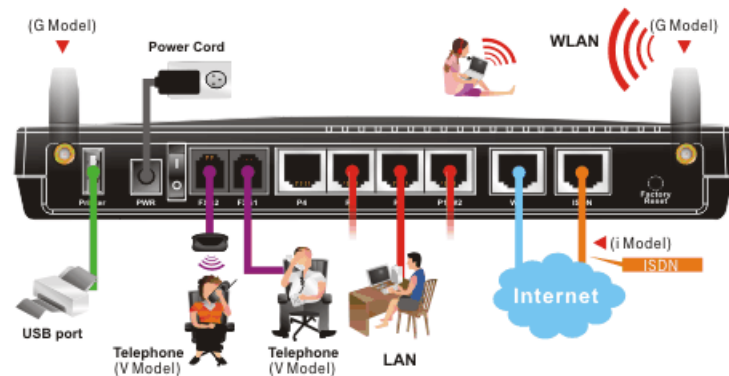
Vigor2950

Dual-Wan Security Firewall

- Dual WAN with load balance and redundancy
- 200 VPN tunnels
- Web content filter (powered by SurfControl)
- Policy-based firewall
- CSM (Content Security Management)
- Bandwidth management
- Super G™ Wireless LAN (for G model)
- ISDN backup (for i model)

Hardware Interface

- 2 x WAN ports, RJ-45
- 5 x LAN ports, RJ-45
- 1 x ISDN port, RJ-45
- 1 x Detachable antenna (for G model)
- 1 x Reset Button

	ISDN	Wireless AP
Vigor2950	—	—
Vigor2950i	◉	—
Vigor2950G	—	◉
Vigor2950Gi	◉	◉

Vigor2200V/VG

VPN VoIP Router

- Easy Internet-Sharing of broadband connection
- Robust firewall
- VoIP capability with 1 FXS ports
- 8 VPN tunnels
- QoS assured priority for VoIP Internet traffic
- 802.11g compliant WLAN (for G model)

	VoIP	Wireless AP
Vigor2200V	◉	—
Vigor2200VG	◉	◉

Hardware Interface

- 1 x WAN port, RJ-45
- 4 x LAN ports, RJ-45
- 1 x FXS , RJ-11 (for V model)
- 1 x Detachable antenna (for G model)
- 1 x Reset Button

Power Cord

(G Model)
WLAN

PWR   Line   Phone   Factory
Reset   P   L   P   P1   WAN

Land line jack
(Analog phone line)
(V Model)

Telephone
(V Model)

LAN

ADSL/Cable
Modem

Internet

Vigor2200E+

VPN Router

- Protection via Firewall for the attack from the Internet
- Call Scheduling presets the Internet / LAN-to-LAN access at certain time or duration
- UP to 16 VPN tunnels & VPN functions support IPSec / L2TP / PPTP / L2TP over IPSec

Hardware Interface

- 1 x WAN port, RJ-45
- 4 x LAN ports, RJ-45
- 1 x Reset Button

Broadband

Broadband is a general term used to describe high-speed access to the Internet. With a broadband connection, Internet users have greater capacity to take advantage of online resources. In essence, a broadband service enables users to download more information, quickly.

Broadband has become an essential tool. Websites with exciting graphics, sound and video attract us and it won't take too long before applications that rely on broadband are commonplace.

What is SIP?

The Session Inititation Protocol (SIP) originally defined by IETF MMUSIC Working Group. It is an application-layer signaling protocol for creating, modifying and terminating multimedia sessions with one or more participants.

SIP is a lightweight, transport-independent and text-based protocol.

- Lightweight, in that SIP has only six methods, reducing complexity

- Transport-independent, because SIP can be used with UDP / TCP / ATM and so on.

- Text-based, allowing for easy implementation and debugging
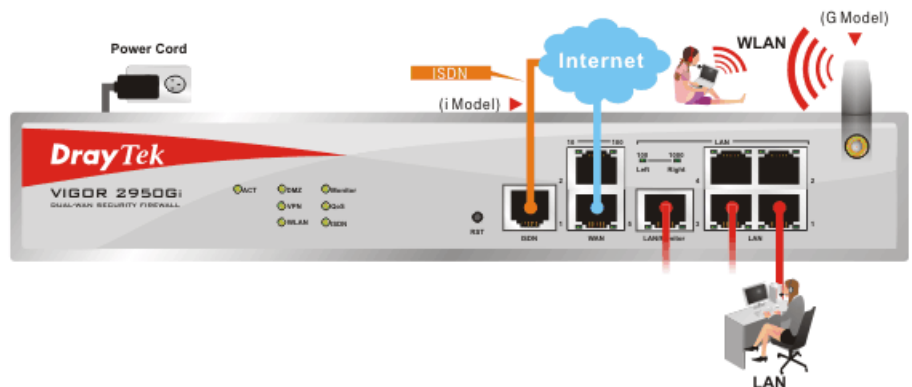
Vigor2930

Dual-WAN Security Firewall

- Dual-WAN with load balance and redundancy
- 100 VPN tunnels
- Web content filter (powered by SurfControl)
- Policy-based firewall
- CSM (Content Security Management)
- Bandwidth management
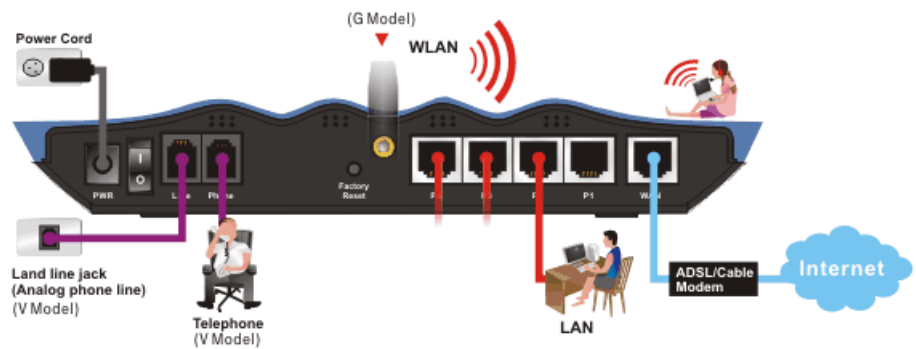- One ISDN port fixed for ISDN phone and one ISDN port

Hardware Interface

- 2 x WAN ports, RJ-45
- 4 x LAN ports, RJ-45
- 2 x FXS , RJ-11 (for V model)
- 2 x ISDN, RJ-45 (for S model)
- 3 x Detachable antenna (for n model)
- 1 x Factory Reset Button
- 1 x Restart Button

	VoIP	ISDN	Wireless AP
Vigor2930	—	—	—
Vigor2930n	—	—	◉
Vigor2930Vn	◉	—	◉
Vigor2930VS	◉	◉	—
Vigor2930VSn	◉	◉	◉
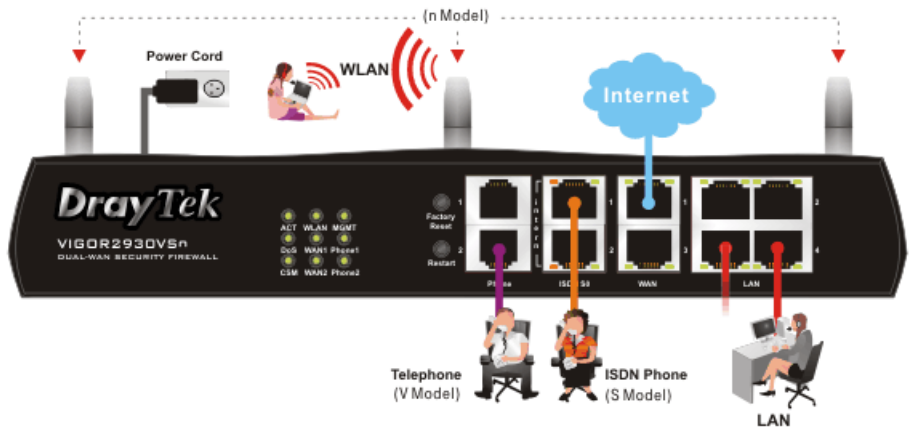
Vigor3300

Enterprise Multiservice Security Router

- 200 VPN tunnels (not available to B+)
- Configurable DMZ port
- Web content filter (powered by SurfControl)
- Robust firewall
- QoS for high VoIP Quality
- Load Balance
- High Availability
- EMS management

Hardware Interface

- 4 x WAN ports, RJ-45
- 4 x LAN ports, RJ-45
- 2 x VoIP slots, RJ-45 (for V model)
- 1 x Console port
- 1 x Reset Button

	VPN	VoIP
Vigor3300	◉	—
Vigor3300B+	—	—
Vigor3300V	◉	◉

Vigor2700

ADSL2/2+ Firewall Router

- VoIP capability with 2 FXS ports
- 2 VPN tunnels
- Web content filter (powered by SurfControl)
- Robust firewall
- IM / P2P blocking
- Bandwidth management
- QoS for high VoIP Quality
- 6 SIP registrars
- 802.11g Turbo G Wireless LAN (for G model)
- ISDN backup (for i model)
- PSTN loop through (for 2S1L model)
- ISDN loop through (for VGi model)

Hardware Interface

- 1 x ADSL port, RJ-45 (AnnexB) or RJ-11(AnnexA)
- 4 x LAN ports, RJ-45
- 2 x FXS , RJ-11 (for V model)
- 1 x ISDN, RJ-45 (for i model)
- 1 x Detachable antenna (for G model)
- 1 x Reset Button

		VoIP	ISDN	Wireless AP
Vigor2700		—	—	—
Vigor2700G		—	—	◉
Vigor2700V		◉	—	—
Vigor2700VG		◉	—	◉
Vigor2700Gi	Annex B only	—	◉	◉
Vigor2700VGi	Annex B only	◉	◉	◉

Vigor2700Ge/e

ADSL2/2+ Router

- Web content filter (powered by SurfControl)
- Robust firewall
- IM / P2P blocking
- 802.11g Wireless LAN (for Ge model)

Hardware Interface

- 1 x ADSL port, RJ-11
- 4 x LAN ports, RJ-45
- 1 x Detachable antenna (for Ge model)
- 1 x Reset Button

	Wireless AP
Vigor2700e	—
Vigor2700Ge	◉

ADSL2/2+

ADSL2+ (ITU G.992.5) doubles the bandwidth used for data transmission downstream, effectively doubling the maximum downstream data rates, and achieving rates of 20 Mbps on telephone lines as long at 5,000 feet. ADSL2+ solutions will be backward-compatible with ADSL and ADSL2, as well as with ADSL2+. ADSL2+ will include all the feature and performance benefits of ADSL2 while maintaining the capability to interoperate with legacy ADSL equipment.

Vigor2800

ADSL2/2+ Security Router

- 32 VPN tunnels
- Robust firewall
- Bandwidth management
- QoS for high VoIP Quality
- 6 SIP registrars
- Super G WLAN (for G model)
- ISDN On / Off Net (for VGi model)

Hardware Interface

- 1 x ADSL port, RJ-11
- 4 x LAN ports, RJ-45
- 1 x USB port for printer server connection
- 2 x FXS , RJ-11 (for V model)
- 1 x ISDN, RJ-45 (for i model)
- 2 x Detachable antenna (for G model)
- 1 x Reset Button

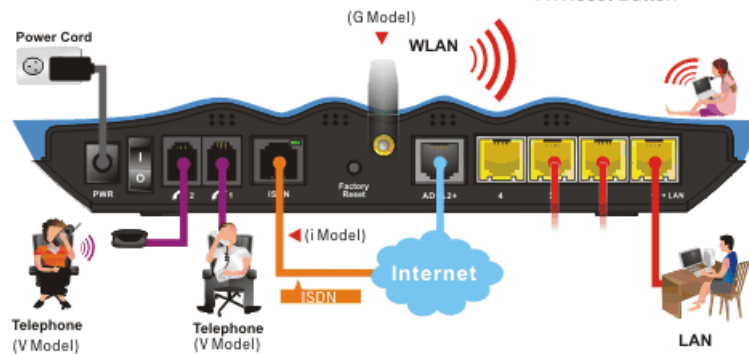|	VoIP	ISDN	Wireless AP
Vigor2800	—	—	—
Vigor2800i	—	◉	—
Vigor2800G	—	—	◉
Vigor2800V	◉	—	—
Vigor2800Gi	—	◉	◉
Vigor2800VG	◉	—	◉
Vigor2800VGi	◉	◉	◉

(G Model) Power Cord (G Model) WLAN (i Model) ISDN Internet USB port Telephone (V Model) Telephone (V Model) LAN
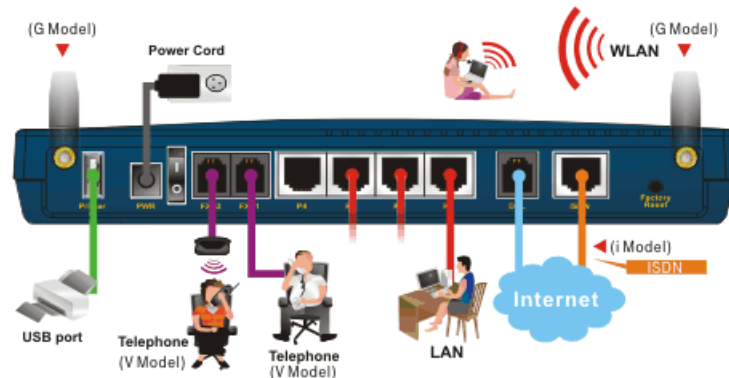
Vigor3100 / 3120

G.SHDSL Security Router

- Up to 4.6 Mpbs (for Vigor 3120)
- 32 VPN tunnels
- Robust firewall
- IM / P2P blocking
- Bandwidth management
- Super G™ WLAN (for G model)

Hardware Interface

- 1 x G.SHDSL port, RJ-45
- 4 x LAN ports, RJ-45
- 1 x USB port for printer server connection
- 1 x Detachable antenna (for G model)
- 1 x Reset Button

	2.3 Mbps	4.6 Mbps	Wireless AP
Vigor3100	◉	—	—
Vigor3100G	◉	—	◉
Vigor3120	—	◉	—

Power Cord Internet (G Model) WLAN DrayTek Vigor3100G G.SHDSL Security Router DSL LAN USB port LAN

VigorAccess Series ADSL2+ IP DSLAM

Scalable
The system is designed to be stackable with uplink Ethernet interface expansion. The port number is up to 168 with a combination of xDSL service. By using scalable architecture, equipment provider can scale up easily with benefit from low-initial investment cost as subscribers increase.

Broadband Access for Building Complex, Community and Campus
For multi-tenant unit (MTU) building like hotels, community and commercial, the VigorAccess series provide cost-effective, flexible and easy deployment of Internet access, gaming, and video / audio services.

Seamless Rate Adaptation (SRA)
The SRA is on-line configuration mechanism specified in ITU-T Rec. G.992.5. By using SRA, the downstream net data rates during showtime shall be automatically increased and decreased according to the line condition.

QoS Guaranteed
To ensure appropriate QoS, the telephone traffic is prioritized and assigned to a service flow, which is handled by ToS control and TCP/IP throttling. IP DSLAM should implement the IP packet classification function to support priority data flow to guarantee the quality of service. It might be necessary to assign voice packet a higher priority queue and assign data a lower priority queue.

No New Wiring Required
It's costly and annoying to wire inside building. Through current telephone line the VigorAccess series deploy service on current POTS wiring closet. No new wiring required.

Single IP Management
The VigorAccess A24M IP DSLAM provides the feature of single IP management. Up to 7 IP DSLAMs can be managed by one IP address. It can reduce maintenance overhead.

IP DSLAM

The next generation network offers a feasible functionality of integrated services with the most cost effective architecture. It can provide rich content, DSL, POTS and VoIP services over traditional copper wire infrastructure. These three types of service will be supported on MGN architecture simultaneously. DSL is used as the data service platform, and VoIP or traditional POTS technology is a basis of the voice service. The multimedia and local content-rich applications can also be easily implemented on this MGN architecture.

VigorAccess

ADSL2/2+ IP DSLAM

- ADSL2/2+ High Speed Broadband Service
- Triple play for IPTV, Internet and Voice
- Small, Medium Scale MGN Network

Hardware Interface

- 1 x or 2 x LC or SC connector, IEEE802.3z 1000 base-LX/SX (for Master)
- 6 x Cascade Interface, RJ-45 IEEE802.3ab 1000 Base-T (for Master)
- 24 x DSL connector, 50-pin RJ-21
- 24 x POTS connector, 50-pin RJ-21
- 1 x Console port, RJ45
- 1 x Alarm port (for Master)
- 1 x Reset Button

	Network (LC or SC Connector)	Cascade
VigorAccess 24M	◉	◉
VigorAccess 24S	—	—

(Master)

(Slave)
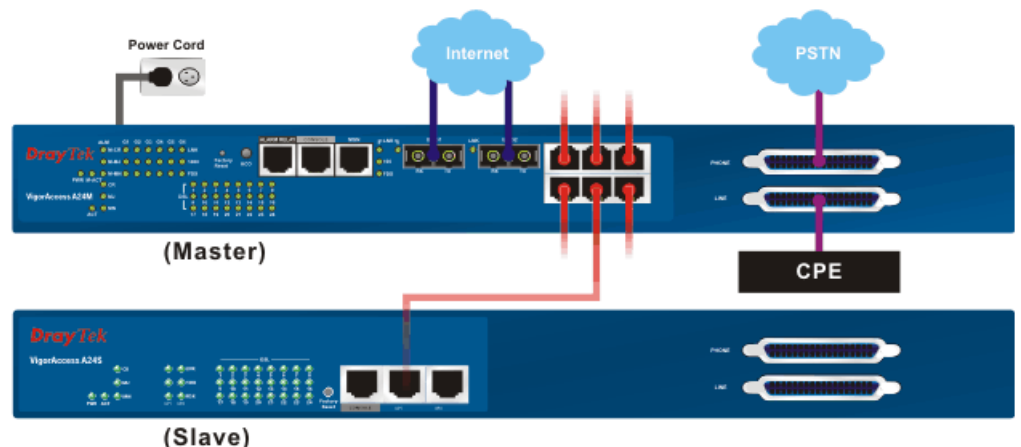
Triple-Play Deployment

The triple-play applications will be more popular and the VigorAccess series support cost-effective delivery of data, voice and video services. The up to 24Mbps downstream, multiple PVCs, QoS, IGMP snooping and multicast capabilities can help you to offer the value-added services. Users can easily access Internet and use Stream TV, VoD and VoIP applications.
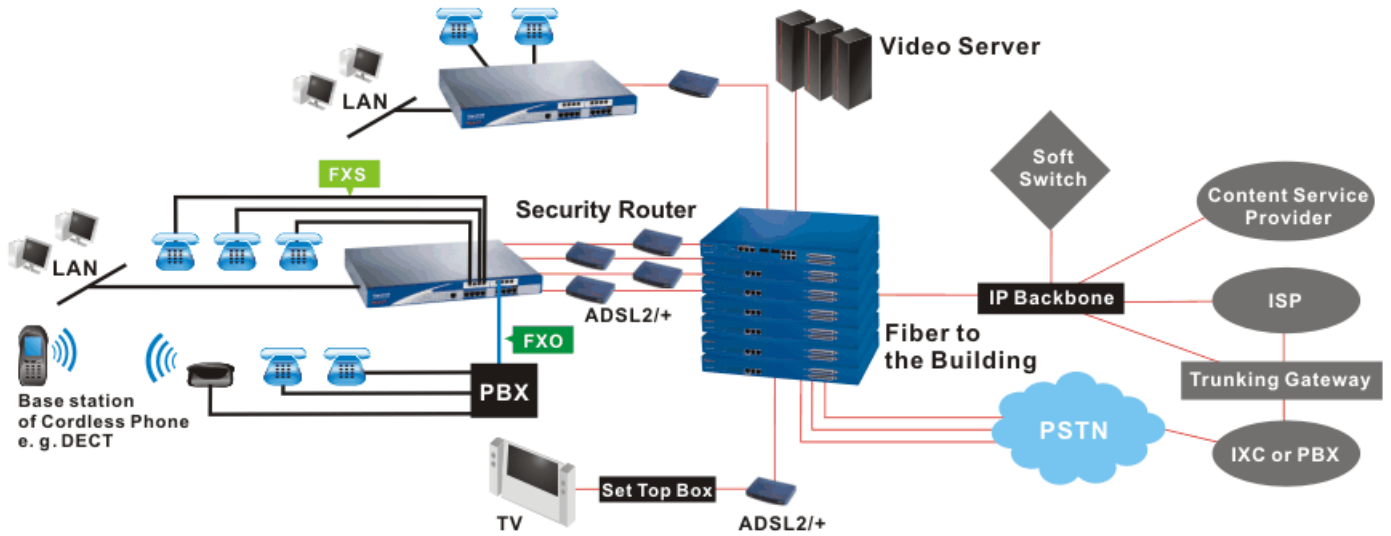
Community Application

Many people live in the various high-density residential environment. The VigorAccess series can offer building complex, campus or community a complete network with rich services. These services include video on demand, remote monitor, building security, product browsing, and local LAN. The advantages of the system architecture facilitate local content management and reduce the content access cost by minimizing traffic loading of the outgoing link.
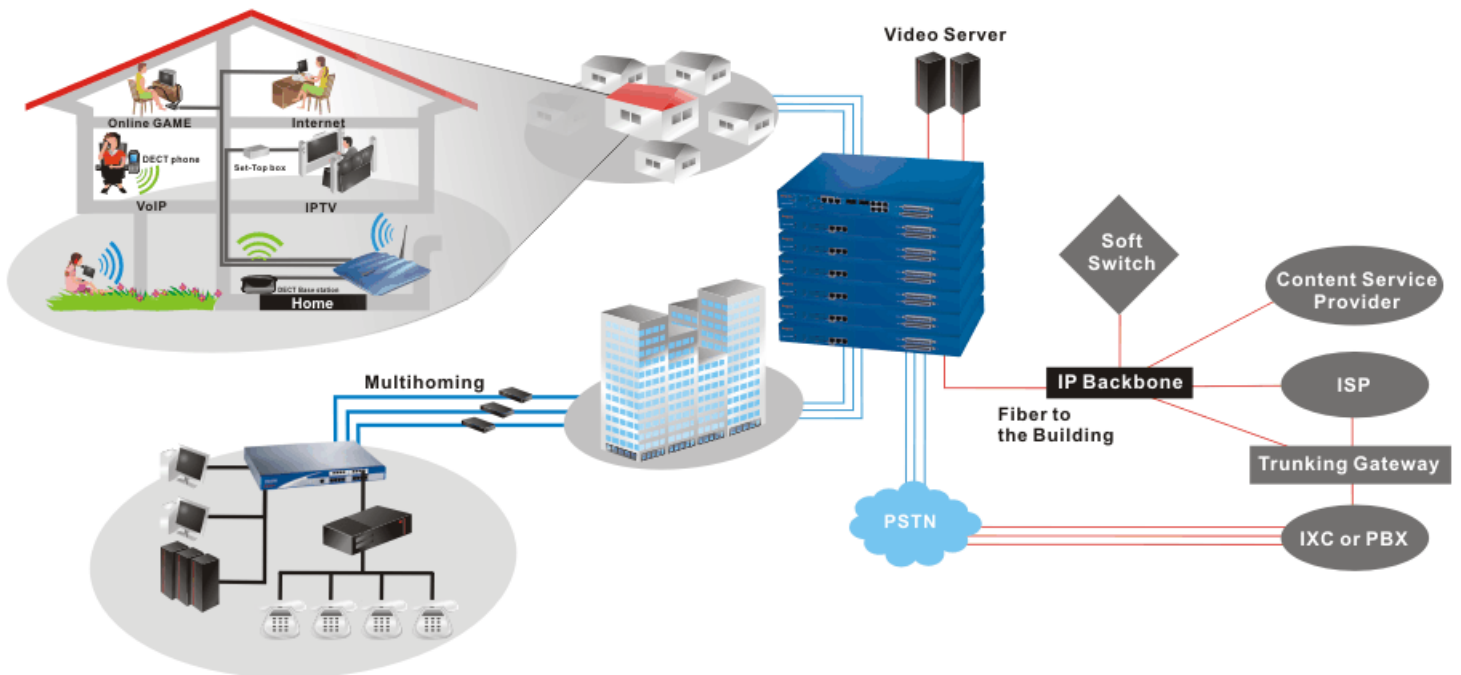
Other Appliances

Vigor560

Wireless 11G CardBus Adapter

- Standard Compliance 802.11b / g
- Transmission Rate 54 Mbps
- 32bit CardBus Interface
- Support up to 128-bit WEP encryption
- WPA supports TKIP
- Wireless link speeds up to 54Mpbs; 5 times faster than 802.11b device
- Operates in the 2.4GHz, Backward
- Compatible in a 802.11b environment
- Seamless roaming from cell nad between
- 802.11b to 802.11g
- Support Windows 98SE / ME / 2000 / XP

Vigor600

Super G Wireless Adapter

- Standard Compliance 802.11b / g
- Super G™ and eXtended Range (XR™) technology
- USB 2.0 interface
- Support up to 128-bit WEP encryption and WPA/
- WPA2 security
- High speed wireless connection
- Flexible cable for easy height and angle positioning
- Innovative design focus on simplicity and functionality
- Support Windows 98SE / ME / 2000 / XP

Vigor610

Turbo G Wireless Adapter

- Standard Compliance 802.11b / g
- Feature advanced Packet-OVERDRIVE™ Turbo G technologies that provides higher performance in throughput
- USB 2.0 interface
- Support up to 128-bit WEP encryption and WPA/ WPA2 security
- External antenna to boost performance
- Flexible USB cable for easy height and angle positioning
- Thumb-sized case for easy carrying
- Support Windows 98SE / ME / 2000 / XP

Other Appliances

DrayTek also provides a number of client devices, such as wireless adapters, ATA (Analogue Telephone Adapter), ISDN TA (Terminal adapter), and USB ADSL modems. Wireless adapters co-work with wireless APs(Access Points). The ATA offers 1 FXS port to the analog phone, which stands for the most economical way of VoIP communication. PC and MAC users can use the ISDN TA to connect to the Internet. On the other hand, the terminal adapter can co-work with any FAX or voice software for multiple purposes besides Internet access.

In addtional to various ADSL routers, simple ADSL modems are also included in DrayTek's product lines to enable prompt connection to the Internet.

What is WPA2 ?

WPA2 (Wi-Fi Protected Access 2) is the approved Wi-Fi Alliance interoperable implementation of the IEEE 802.11i standard.

WPA2 offers a high level of assurance for networker that the data will remain private and access to their network restricted to authorized users. It utilizes 802.1X and Extensible Authentication Protocol (EAP) for authentication.

WPA2 can be enabled in two versions - WPA2-Personal and WPA2-Enterpries. WPA2-Personal protects unauthorized network access by a pre-shared key or password. WPA2-Enterpries provides authentication using IEEE 802.1X and EAP. It provides data encryption via AES. WPA2 is backward compatible with WPA.

VigorTalk

Analog Telephone Adapter

- Leverage your existing broadband connection for lower Internet phone rate
- Provides carrier-class-clear sounding and high quality voice communication while surfing Internet
- Taking full advantage of the features afforded by service provider: Caller ID, Call Waiting etc.
- Capable to be large-scale deployed by service provider

Hardware Interface

- 1 x ADSL port, RJ-45
- 1 x FXS, RJ-11
- 1 x Reset Button

miniVigor128

USB ISDN TA

- Low cost compatible with Euro ISDN
- Compatible with Windows and Mac OS
- Self-powered by the USB Bus
- ISDN Data at 64 or 128Kbps
- Bandwidth-on-Demand (BoD)
- Fax Send & Receive facilities (via Windows software supplied)
- 32-Bit CAPI 2.0 & NDISWAN Support (PC Version)
- Status LEDs display channel usage and USB activity
- Support Windows 98SE / ME / 2000 / XP

Hardware Interface

- 1 x ISDN port, RJ-45
- 1 x USB port
- 1 x Reset Button

Vigor318

USB ADSL Modem

- The best combination of ADSL technology and USB simplicity
- Provides a blazing solution of fully-utilizing bandwidth on a single copper telephone line
- DMT modulation and demodulation
- Full-rate adaptive modem
- Enjoy talking on a single telephone line
- Support Windows 98SE / ME / 2000 / XP

Hardware Interface

- 1 x ADSL port, RJ-45
- 1 x USB port
- 1 x Reset Button

VigorPro Series

High-performance Security Firewall with Unified Threat Management

- Anti-Virus, Kaspersky / Draytek licence included
- Anti-Intrusion
- Hardware-accelerated content inspection engine
- Dual-WAN with load balance and redundancy
- 200 VPN tunnels (for 5500 series)
- 100 VPN tunnels (for 5300 series)
- Web content filter (powered by SurfControl)
- Policy-based firewall
- CSM (Content Security Management)
- Bandwidth management
- ISDN backup (for S / i model)
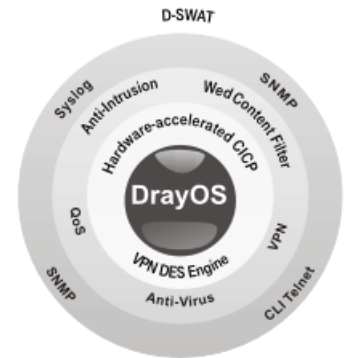
Synergy with Kaspersky Lab

Kaspersky Lab (http://www.kaspersky.com/) is well known as its developing and producing complete information security solutions.

D-SWAT

D-SWAT is the abbreviation of "DrayTek Security Warning and Anti-attack Team". To provide a better service and protect your investment, DrayTek and our partners are committed to our customer's satisfaction. D-SWAT provides expertise with:

- Research: security information gathering and analysis, hacking techniques analysis, virus samples collection, analysis, exploits collection and analysis
- Training: hacking techniques and incident handling
- Service: D-SWAT security portal website, signature upgrade, news letter and security advisories

For more information, please visit:
http://www.vigorpro.com

MSSI™ Technique

Conventional firewalls only inspect packets header to against any connection-based attack. While the content-based threats today, such as virus, worms, Trojans or banned content, spread faster and do more damage. Conventional firewalls bypass the widely spread content-based threat and expose internal network to outside world. VigorPro series deploys DrayTek's unique MSSI™ (Multi-Stack Stateful Inspection) mechanism. With MSSI™, VigorPro series inspects packet streams, compares any suspected content or behavior with build-in database in real-time, and provides inline anti-virus and anti-intrusion protection.

Network-level Protection

Conventional way to protect against virus or malicious program requires each host to install software. Installing software on a large number of hosts is a time consuming process. To evaluate the vulnerabilities, both scan engine and database of virus pattern need constant upgrade. It is very costly and annoying for IT personnel with high maintenance.

UTM
Unified Threat Management

- Anti-Virus
- IDP
- Anti-Worms
- Web Filter
- Content Security
- VPN / Firewall
- Load balancer

Internet

Assailant

Hacker
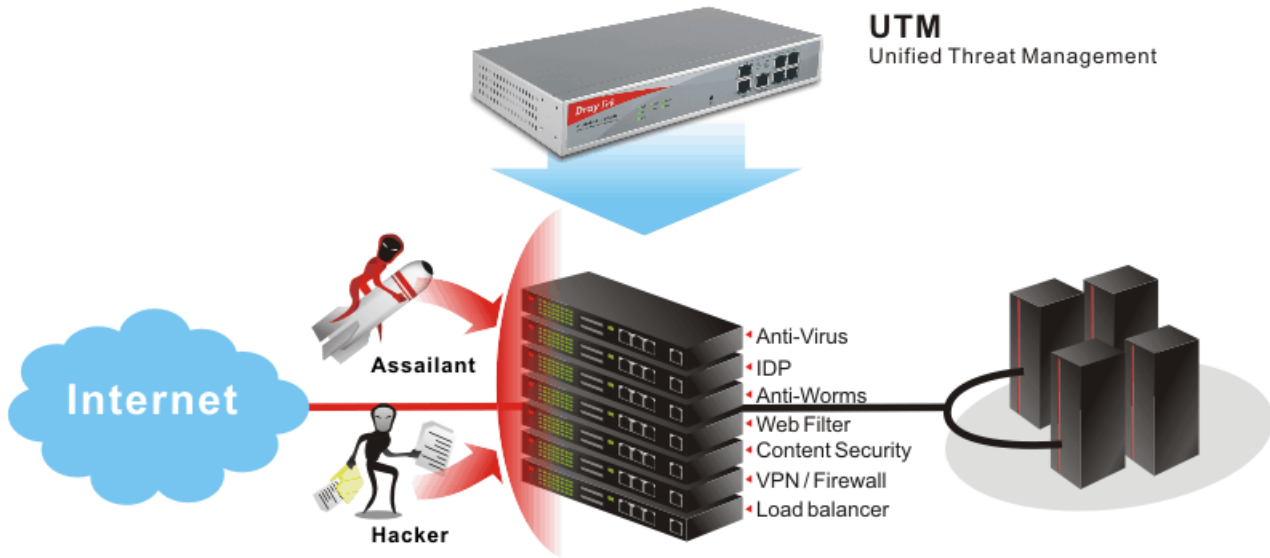
Hardware-accelerated, Real -time Response

VigorPro employs a unique, hardware-accelerated architecture that provides the ability to perform real-time security without slowing down critical network applications, e.g Web traffic. Software-based anti-virus solutions, which are designed for scanning non-real-time email messages, are too slow to be used to scan Web traffic or other real-time network applications.

Content inspection co-processor

MSSI™

In Out

FTP Server
E-mail Server
Http Server

Internet

Re: TROJAN HORSE

Re: TROJAN HORSE
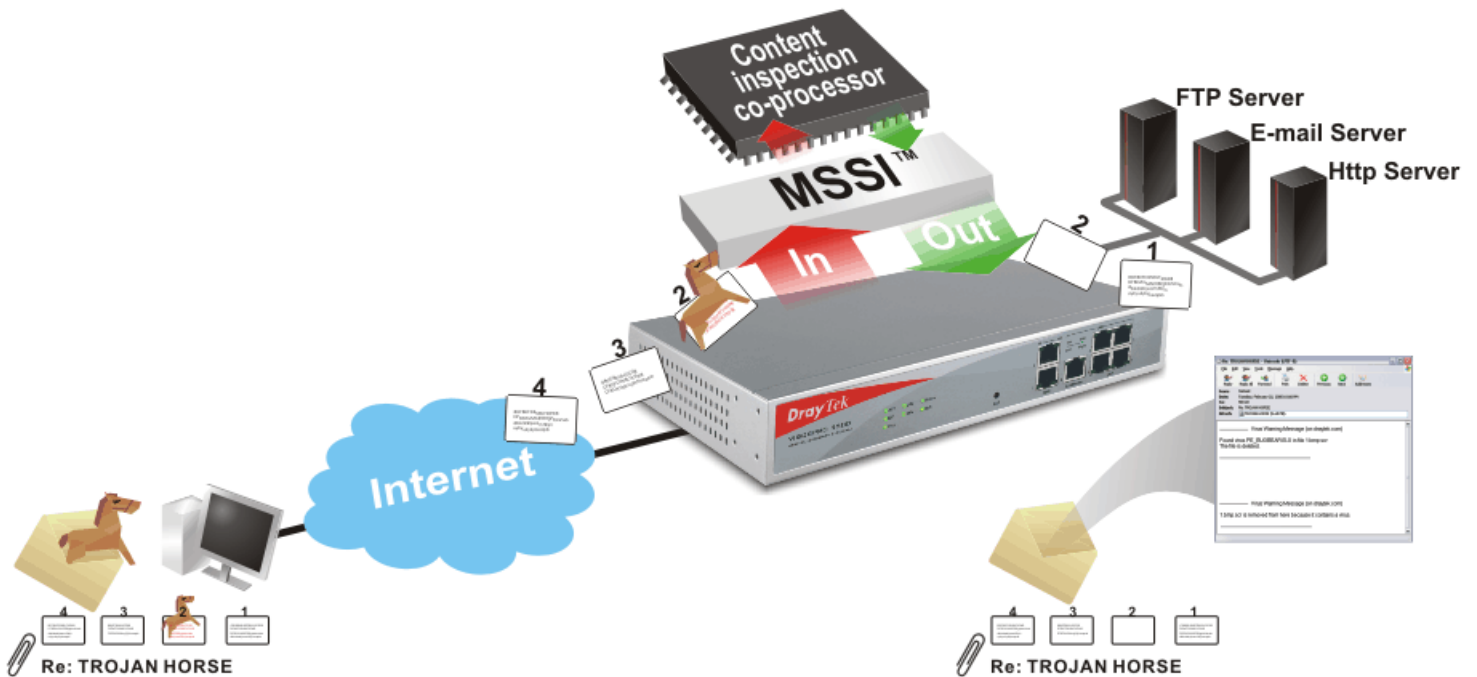
VigorPro 5500

Hardware Interface

- 2 x WAN ports, RJ-45
- 5 x LAN ports, RJ-45
- 1 x ISDN, RJ-45 (for i model)
- 1 x Detachable antenna (for G model)
- 1 x Reset Button
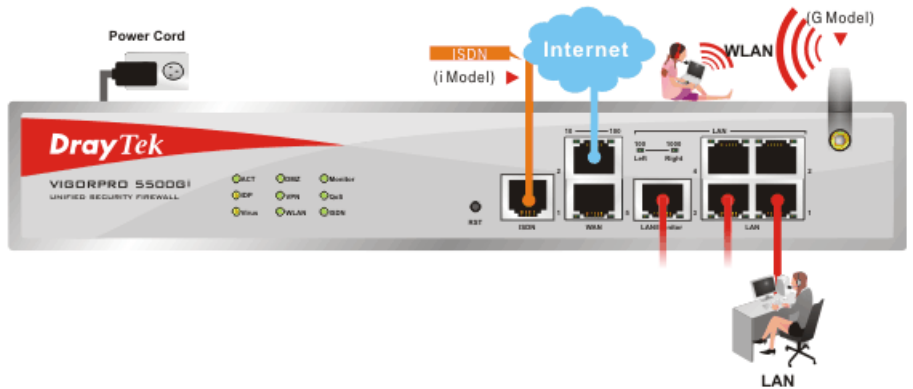
	ISDN	Wireless AP
VigorPro 5500	—	—
VigorPro 5500i	●	—
VigorPro 5500Gi	●	●

VigorPro 5300

Hardware Interface

- 2 x WAN ports, RJ-45
- 4 x LAN ports, RJ-45
- 2 x FXS , RJ-11 (for V model)
- 2 x ISDN, RJ-45 (for S model)
- 3 x Detachable antenna (for n model)
- 1 x Factory Reset Button
- 1 x Restart Button
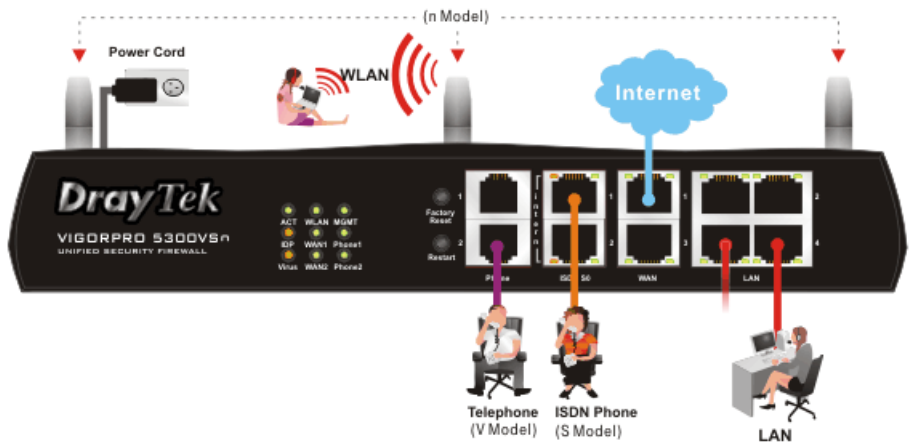
	VoIP	ISDN	Wireless AP
VigorPro 5300	—	—	—
VigorPro 5300n	—	—	●
VigorPro 5300Vn	●	—	●
VigorPro 5300VS	●	●	—
VigorPro 5300VSn	●	●	●

UTM Series Comparison Table

		VigorPro 5300 series			VigorPro 5500 series	
		5300	5300n	5300VS	5500	5500Gi
Dual-WAN						
Load-Balance		✓	✓	✓	✓	✓
Fail-Over		✓	✓	✓	✓	✓
BoD (Bandwidth on Demand)		✓	✓	✓	✓	✓
LAN		4-Port	4-Port	4-Port	5-Port Gigabit	5-Port Gigabit
Wireless			DraftN			Super G™
MAC Address Access Control			✓			✓
WEP/WPA/WPA2 Encryption			✓			✓
802.1X Authentication			✓			✓
Wireless LAN Isolation			✓			✓
Wireless VLAN			✓			✓
Wireless Rate Control			✓			✓
AP Discovery			✓			✓
WDS			✓			✓
Anti-Virus						
Scan SMTP, POP3, HTTP, IMAP, FTP		✓	✓	✓	✓	✓
Scan ZIP / GZIP / BZIP2		✓	✓	✓	✓	✓
Scan encrypted VPN tunnels		✓	✓	✓	✓	✓
Automatic virus signature update		✓	✓	✓	✓	✓
Automatic alert when signature update service expires		✓	✓	✓	✓	✓
Real-time e-mail / syslog alert when virus is detected		✓	✓	✓	✓	✓
Anti-Intrusion						
Rule-based detection list		✓	✓	✓	✓	✓
Pass / block / reset when intrusion is detected		✓	✓	✓	✓	✓
Automatic intrusion signature update		✓	✓	✓	✓	✓
Automatic alert when signature update service expires		✓	✓	✓	✓	✓
Real-time e-mail / syslog alert when under attack		✓	✓	✓	✓	✓
Supplemental Services		✓	✓	✓	✓	✓
VoIP						
Protocol	SIP, RTP / RTCP			✓		
SIP Account				12		
FXS				2		
ISDN S0				Up to 2		
ISDN On-net / Off-net				Up to 1		
ISDN Loop-through				Up to 1		
Codec	G.711, G.723.1, G.727, G.729			✓		
DSP Features	G.168 Line Echo-Cancellation			✓		
	Jitter Buffer (ms)			125ms		
	Caller ID			✓		
FAX / Modem Support	G.711 pass-through			✓		
	T.38			✓		
Supplemental Services	Internal Call			✓		
	Call Hold / Retrieve			✓		
	Call Waiting			✓		
	Call Waiting with Caller ID			✓		
	Call Transfer			✓		
	Call Forwarding (Always, Busy, No Answer)			✓		
	DND (Do not Disturb)			✓		
	Hotline			✓		
	MWI (Message Waiting Indicator)			✓		
DTMF Tone	Inband, Outband (RFC-2833), SIP Info			✓		
DialPlan	Phone Book			✓		
	Digit Map			✓		
	Call Barring			✓		
VPN						
Tunnel		100	100	100	200	200
Protocol	PPTP, L2TP, IPSec, L2TP over IPSec	✓	✓	✓	✓	✓
Encryption	AES	Hardware	Hardware	Hardware	Hardware	Hardware
	DES / 3DES	Hardware	Hardware	Hardware	Hardware	Hardware
	MPPE	✓	✓	✓	✓	✓
Authentication	MD5, SHA-1	Hardware	Hardware	Hardware	Hardware	Hardware
IKE Authentication	Pre-shared Key	✓	✓	✓	✓	✓
	Digital Signature	✓	✓	✓	✓	✓
NAT-Traversal		✓	✓	✓	✓	✓
DHCP over IPSec		✓	✓	✓	✓	✓
Bandwidth Management						
Policy-based QoS		✓	✓	✓	✓	✓
Bandwidth / Session Limitation		✓	✓	✓	✓	✓
Firewall						
Object-Oriented Firewall		✓	✓	✓	✓	✓
DoS / DDoS Prevention		✓	✓	✓	✓	✓
CSM (Content Security Management)		✓	✓	✓	✓	✓
Content Filter	URL, Web (SurfControl)	✓	✓	✓	✓	✓

Comparison Table

Broadband Series Comparison Table

Feature		2100G	2100V	2100VG	2200V	2200VG	2910	2910G
		Vigor2100 series			Vigor2200 series			
Dual-WAN							✓	✓
Load-Balance							✓	✓
Fail-Over							✓	✓
BoD (Bandwidth on Demand)							✓	✓
LAN		4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port
USB Printer Port							✓	✓
ISDN								
Wireless		802.11g		802.11g		802.11g		Super G™
MAC Address Access Control		✓		✓		✓		✓
WEP / WPA / WPA2 Encryption		✓		✓		✓		✓
802.1X Authentication								✓
Wireless LAN Isolation		✓		✓		✓		✓
Wireless VLAN								✓
Wireless Rate Control								✓
AP Discovery		✓		✓		✓		✓
WDS		Bridge		Bridge		Bridge		✓
VoIP								
Protocol	SIP, RTP / RTCP		✓	✓	✓	✓		
SIP Account			3	3	3	3		
FXS			1	1	1	1		
PSTN Loop-through			1	1	1	1		
ISDN S0								
ISDN On-net / Off-net								
ISDN Loop-through								
Codec	G.711, G.723.1, G.727, G.729		✓	✓	✓	✓		
DSP Features	G.168 Line Echo-Cancellation		✓	✓	✓	✓		
	Jitter Buffer (ms)		125ms	125ms	125ms	125ms		
	Caller ID		✓	✓	✓	✓		
FAX / Modem Support	G.711 Pass-through		✓	✓	✓	✓		
	T.38		✓	✓	✓	✓		
Supplemental Services	Internal Call							
	Call Hold / Retrieve		✓	✓	✓	✓		
	Call Waiting		✓	✓	✓	✓		
	Call Waiting with Caller ID		✓	✓	✓	✓		
	Call Transfer		✓	✓	✓	✓		
	Call Forwarding (Always, Busy, No Answer)		✓	✓	✓	✓		
	DND (Do not Disturb)		✓	✓	✓	✓		
	Hotline		✓	✓	✓	✓		
	MWI (Message Waiting Indicator)		✓	✓	✓	✓		
DTMF Tone	Inband, Outband (RFC-2833), SIP Info		✓	✓	✓	✓		
DialPlan	Phone Book		✓	✓	✓	✓		
	Digit Map		✓	✓	✓	✓		
	Call Barring							
VPN								
Tunnel					8	8	32	32
Protocol	PPTP, L2TP, IPSec, L2TP over IPSec				✓	✓	✓	✓
Encryption	AES				✓	✓	✓	✓
	DES / 3DES				✓	✓	Hardware	Hardware
	MPPE				✓	✓	✓	✓
Authentication	MD5, SHA-1				✓	✓	✓	✓
IKE Authentication	Pre-shared Key				✓	✓	✓	✓
	Digital Signature						✓	✓
NAT-Traversal							✓	✓
DHCP over IPSec					✓	✓	✓	✓
Bandwidth Management								
Policy-based QoS			VoIP	VoIP	VoIP	VoIP	✓	✓
Bandwidth / Session Limitation							✓	✓
Firewall								
Object-Oriented Firewall							✓	✓
Policy-based IP Filter		✓	✓	✓	✓	✓	✓	✓
DoS / DDoS Prevention		✓	✓	✓	✓	✓	✓	✓
CSM (Content Security Management)							✓	✓
Bind IP to MAC Address							✓	✓
Content Filter	URL	✓	✓	✓	✓	✓	✓	✓
	Web (SurfControl)						✓	✓
E-Mail Alert		✓	✓	✓	✓	✓	✓	✓

xDSL Series Comparison Table

		Vigor2700e series		Vigor2700 series				
		2700e	2700Ge	2700	2700G	2700Gi	2700V (2S)	2700VG (2S)
xDSL								
ADSL	G.992.1 (G.dmt)	✔	✔	✔	✔	✔	✔	✔
	G.992.2 (G,lite)	✔	✔	✔	✔	✔	✔	✔
	T1.413 issue 2	✔	✔	✔	✔	✔	✔	✔
ADSL2	G.992.3 (G,dmt.bis)	✔	✔	✔	✔	✔	✔	✔
	G.992.4 (G.lite.bis)							
ADSL2+	G.992.5	✔	✔	✔	✔	✔	✔	✔
SDSL	G.991.2							
LAN		4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port
USB Printer Port								
ISDN						Annex B		
Wireless			802.11g		802.11g	802.11g		802.11g
MAC Address Access Control			✔		✔	✔		✔
WEP / WPA / WPA2 Encryption			✔		✔	✔		✔
802.1X Authentication								
Wireless LAN Isolation			✔		✔	✔		✔
Wireless VLAN								
Wireless Rate Control								
Multiple SSIDs					✔	✔		✔
AP Discovery			✔		✔	✔		✔
WDS			✔		✔	✔		✔
VoIP								
Protocol	SIP, RTP / RTCP						✔	✔
SIP Account							6	6
FXS							2	2
PSTN Loop-through								
ISDN On-net/Off-net								
ISDN Loop-through								
Codec	G.711, G.723.1, G.727, G.729						✔	✔
DSP Features	G.168 Line Echo-Cancellation						✔	✔
	Jitter Buffer (ms)						125ms	125ms
	Caller ID						✔	✔
FAX / Modem Support	G.711 pass-through						✔	✔
	T.38						✔	✔
Supplemental Services	Internal Call						✔	✔
	Call Hold / Retrieve						✔	✔
	Call Waiting						✔	✔
	Call Waiting with Caller ID						✔	✔
	Call Transfer						✔	✔
	Call Forwarding (Always, Busy, No Answer)						✔	✔
	DND (Do not Disturb)						✔	✔
	Hotline						✔	✔
	MWI (Message Waiting Indicator)						✔	✔
DTMF Tone	Inband, Outband (RFC-2833), SIP Info						✔	✔
DialPlan	Phone Book						✔	✔
	Digit Map						✔	✔
	Call Barring						✔	✔
VPN								
Tunnel				2	2	2	2	2
Protocol	PPTP, L2TP, IPSec, L2TP over IPSec	✔	✔	✔	✔	✔	✔	✔
Encryption	AES	✔	✔	✔	✔	✔	✔	✔
	DES / 3DES	✔	✔	✔	✔	✔	✔	✔
	MPPE	✔	✔	✔	✔	✔	✔	✔
Authentication	MD5, SHA-1	✔	✔	✔	✔	✔	✔	✔
IKE Authentication	Pre-shared Key	✔	✔	✔	✔	✔	✔	✔
	Digital Signature	✔	✔	✔	✔	✔	✔	✔
NAT-Traversal		✔	✔	✔	✔	✔	✔	✔
DHCP over IPSec		✔	✔	✔	✔	✔	✔	✔
Bandwidth Management								
Policy-based QoS				✔	✔	✔	✔	✔
Bandwidth / Session Limitation		✔	✔	✔	✔	✔	✔	✔
Firewall								
Policy-based IP Filter		✔	✔	✔	✔	✔	✔	✔
DoS / DDoS Prevention		✔	✔	✔	✔	✔	✔	✔
IM / P2P Blocking		✔	✔	✔	✔	✔	✔	✔
Bind IP to MAC Address		✔	✔	✔	✔	✔	✔	✔
Content Filter	URL	✔	✔	✔	✔	✔	✔	✔
	Web (SurfControl)	✔	✔	✔	✔	✔	✔	✔
E-Mail Alert		✔	✔	✔	✔	✔	✔	✔

2700V (2S1L)	2700VG (2S1L)	2700VGi	Vigor2800 series							Vigro3100 series		
			2800	2800G	2800i	2800Gi	2800V	2800VG	2800VGi	3100	3100G	3120
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
			✓	✓	✓	✓	✓	✓	✓			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
										✓	✓	✓
4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port	4-Port
						✓				✓	✓	✓
		Annex B			✓	✓			✓			
	802.11g	802.11g		Super G™		Super G™		Super G™	Super G™		Super G™	
	✓	✓		✓		✓		✓	✓		✓	
				✓		✓		✓	✓		✓	
	✓	✓		✓		✓		✓	✓		✓	
				✓		✓		✓	✓		✓	
				✓		✓		✓	✓		✓	
	✓	✓										
	✓	✓		✓		✓		✓	✓		✓	
	✓	✓		✓		✓		✓	✓		✓	
✓	✓	✓					✓	✓	✓			
6	6	6					6	6	6			
2	2	2					2	2	2			
✓	✓	✓										
		✓							✓			
		✓							✓			
✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
125ms	125ms	125ms					125ms	125ms	125ms			
✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
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✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
✓	✓	✓					✓	✓	✓			
2	2	2	32	32	32	32	32	32	32	32	32	32
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	Hardware	Hardware	Hardware	Hardware	Hardware	Hardware	Hardware	Hardware	Hardware	Hardware
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

DrayTek

V1.0
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