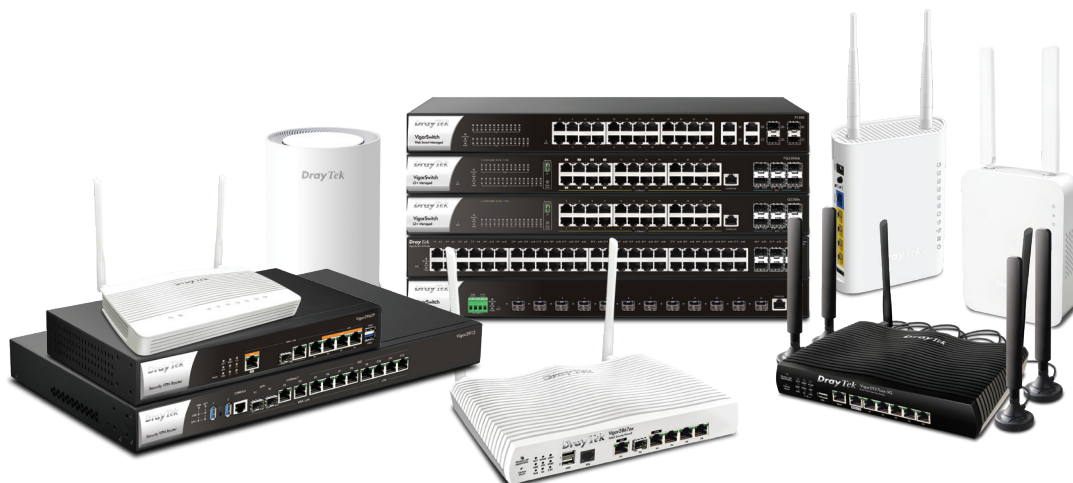




Product Catalogue 2026-2027

Your partner for reliable networking solutions





About DrayTek

Founded in 1997 by a group of talented engineers, DrayTek has established its reputation as a leader in networking equipment for small to medium-sized businesses (SMBs). Since the early days, DrayTek has often been the first brand to incorporate advanced business network functions, including VPN, IP/Data Firewall with Web Content Filter and URL Filter, Wi-Fi, VoIP, and Multi-WAN in its router products, allowing SMB customers to benefit from these integrated technologies.

To date, DrayTek continues to provide products and solutions which meet and exceed the expectations of home, SOHO, SMB and enterprise markets.

Business and SOHO Solutions

Due to the rapid development of ICT technology, worldwide business customers expect networking products to be more powerful and have more functionality. For example, many companies rely on VPN technology for inter-branch communications. In addition to other comprehensive security features, DrayTek's VPN implementation supports secure VPN protocols including IPsec, OpenVPN, and WireGuard.

For network security requirements, DrayTek provides an Object-based SPI Firewall with DoS/DDoS Prevention, Bind IP to MAC, Time Schedule, and Content Security Management.

Other features that distinguish DrayTek from its competitors include multiple-WAN with Load Balance and Failover functions, 4G LTE/5G connectivity, Virtual LAN, network security, concurrent multi-band 802.11ac, 802.11ax & 802.11be Wi-Fi, Gigabit LAN ports, network management options, IPv6, and TR-069 based ACS software.

The home and SOHO market requires reliable and flexible products to suit the evolving networking landscape for these environments. Wi-Fi connectivity, VoIP for personal communications and robust Firewall capability for secure networks are required, which DrayTek has incorporated into its products since its establishment, often well before competitors.

Keeping up with Technology

With feedback from global markets including Europe, USA, Asia and Oceania, DrayTek continues to improve the technology and features of its products, while providing downloadable firmware upgrades for older models. As a result, users gain benefits from the latest technology developments even if they have owned the DrayTek products for some time.

Developments in DrayTek products include the VigorACS 3 remote management system with SD-WAN capabilities, AP management, 4G LTE/5G connectivity, Wi-Fi standards including 802.11ac, 802.11ax, and 802.11be, IPv6 support, Wi-Fi Mesh Technology, Multi-WAN Load Balancing and Failover, High Availability, and OpenFlow/SDN for VigorSwitches.

As a direct result of its ongoing efforts, DrayTek's Vigor products have been regular recipients of several Australian and New Zealand Magazine Awards, and positive comments in many international magazines and online reviews.

DrayTek continues to anticipate developments in the IT market and develop innovative products and solutions to meet market expectations.

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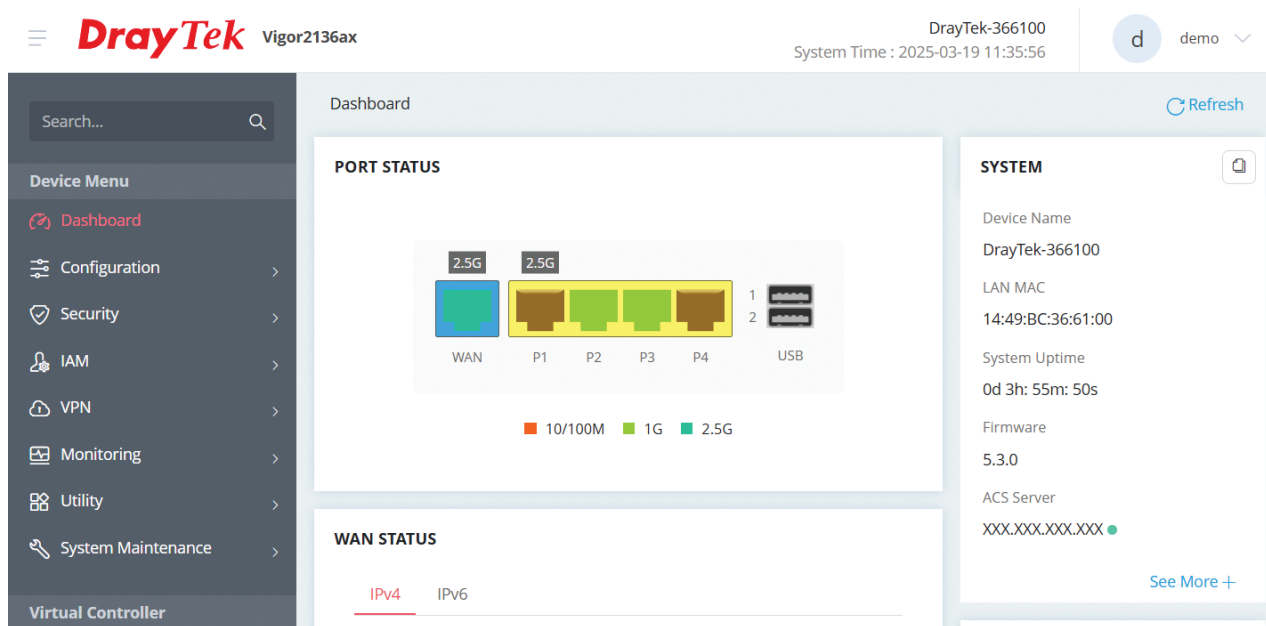
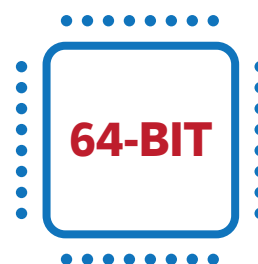
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DrayOS 5

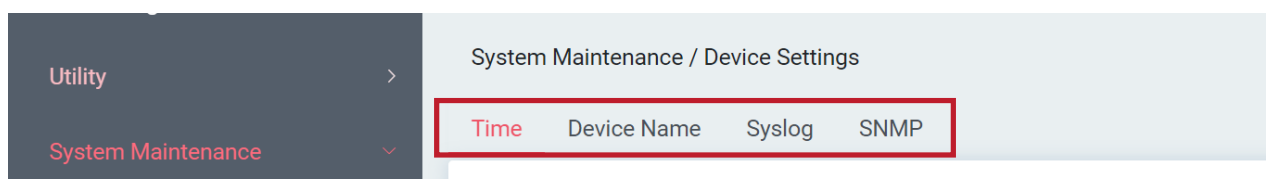
DrayOS 5 is a new operating system used in DrayTek's latest routers and access points. It was first introduced in the Vigor167, followed by the Vigor2136 and Vigor C510, released in early 2025. This catalogue introduces the Vigor2767, Vigor2867 and Vigor2928, which are expected to be released during 2026. Eventually, DrayOS 5 will be available on all DrayTek devices. VigorSwitches also will receive a revised user interface to match the DrayOS 5 look and feel.

Improvements

- DrayOS 5 has an entirely new configuration and user Interface framework, taking the best from DrayOS 4 and making it more user-friendly and intuitive.
- It uses a 64-bit architecture, making it compatible with the new 64-bit multicore CPU hardware.
- It has a hardware-independent management system, making migrating from one model to another easier than DrayOS 4.
- It has a new grey and white colour scheme, differentiating it from the red and white scheme used in DrayOS 4.



- DrayOS 5 is more uniform with a similar menu look and layout across the DrayTek product range, including the VigorACS 3 monitoring tool.
- There is an improved navigation system. In DrayOS 4 routers, the menu options were displayed vertically, with submenus below the main menu item. In DrayOS 5, menu items in a particular category are grouped and displayed horizontally.



DrayOS 5

Zero Trust and IAM

DrayOS 5 also includes the latest advances in network security, incorporating Zero Trust Network Access (ZTNA) and Identity and Access Management (IAM).

The principle of ZTNA is: Never trust, always verify, and assume everything is hostile by default. That means all devices connected to a network are untrusted until verified, even if previously trusted. VLANs and one-to-one encrypted connections (VPNs) only allow access to particular resources, applications, and network segments. Users gain access only to the bare minimum they need to perform their jobs. If a device or user account is compromised, the damage is minimised.

Part of Zero Trust is conditional IAM, which brings powerful security enhancements to DrayTek routers. Administrators can finely control user privileges, define access policies, and coordinate group policies with the firewall and traffic shaping settings with IAM.

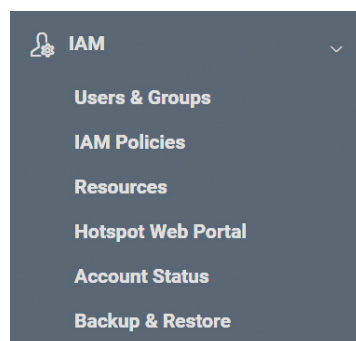
Users can be added to groups to make management more accessible, and access policies can be created and added to groups.

Conditional access policies provide a flexible and granular way to control and secure resource access based on various conditions and criteria, enhancing an organisation's overall security posture. These can require users to provide multiple forms of authentication before they are granted access to a resource. That can require multi-factor authentication, including setting a re-authentication expiry time, restricting access by IP address, including VLANs, and setting a schedule.

The Resources option allows recording IP addresses and MAC addresses of local devices like workstations, network printers, PBX systems, NVR systems, and servers, which can also greatly enhance the effectiveness of access policies. These recorded addresses will serve as the foundation for creating and enforcing the mentioned access policies.

There is also a Hotspot Web Portal that enables the creation of a landing page for guest users, as well as configuring access control settings, social media logins, and more.

Furthermore, all IAM settings can be backed up and restored, saving time compared to re-entering them manually if the router needs replacing. They can also be reverted to an earlier configuration if issues occur.



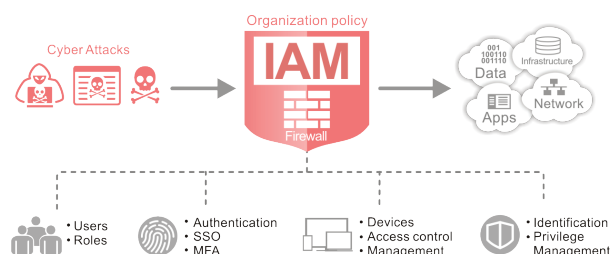
IAM provides:

Precise Device Authentication: Using each device's unique IP and MAC address provides a solid basis for identification and authentication.

Reduced False Positives: Using IP and MAC addresses minimises the likelihood of blocking legitimate devices due to other potential factors.

Holistic Security: Combining user, device, and session-based policies enhances overall security without relying solely on one aspect.

Enhanced Incident Response: When security incidents occur, you can quickly pinpoint the devices involved and take appropriate actions.



WAN Connectivity Options

DrayTek routers are available in single, dual and multi-WAN versions, and models are available to support a variety of WAN connectivity options such as:

- VDSL2 – For NBN Fibre to the Node (FTTN) and Fibre to the Building (FTTB) installations
- Ethernet – For NBN Fibre to the Premises (FTTP), Hybrid Fibre Coaxial (HFC), Fibre to the Curb (FTTC), Satellite and Fixed Wireless installations
- 4G LTE/5G – Integrated 4G LTE/5G modem provides access to the mobile broadband network
- USB WAN – 4G WAN connectivity when used with a supported 4G USB modem
- Wi-Fi WAN – Connect to the Internet through a Wi-Fi Hotspot
- Optic Fibre WAN – Access the Internet through an SFP fibre module fitted to supported routers (Vigor3912, Vigor2962, Vigor2928 and Vigor2867)

Multi-WAN Load Balancing

Multi-WAN Load Balancing is available in Dual and Multi-WAN routers to increase network reliability through reduced reliance on a single service provider, as well as providing increased bandwidth capacity to the Internet.

Load Balancing is enabled by default in DrayTek Vigor routers. Once a WAN link is online, the router will add it to the load balancing pool. There is no special configuration required.

Active on Demand

An additional WAN connection can be set to Failover mode. The backup connection is activated when one of the predefined conditions is met such as the primary WAN connection failing or the traffic threshold is exceeded.

Get Aggregated Speed

Bandwidth aggregation can be achieved by activating the Session-based Load Balancing mode.

In Session-Based mode, the router will distribute Internet sessions using different WAN links. As a result, the maximum bandwidth attained will be the combination of all active WANs.

Load Balance/Route Policy

Policy Based routing rules can be easily configured to designate a WAN connection for network traffic. For example, VoIP traffic can be directed through one WAN connection, while traffic from an IP address range or destination can be sent through another WAN connection.

Optimise Bandwidth Utilisation

The router will detect the maximum bandwidth for each WAN, track the usage of each WAN, and deploy traffic onto the less-utilised WAN connection.

Built-in WAN Budget

The WAN Budget feature allows network administrators to manage data usage on each WAN link for a specific period of time. It will set a traffic quota for each WAN interface and track each link's data usage during a custom billing cycle. Once the data reaches the defined threshold, the router can shut down the WAN link or send a notification to the network administrators.

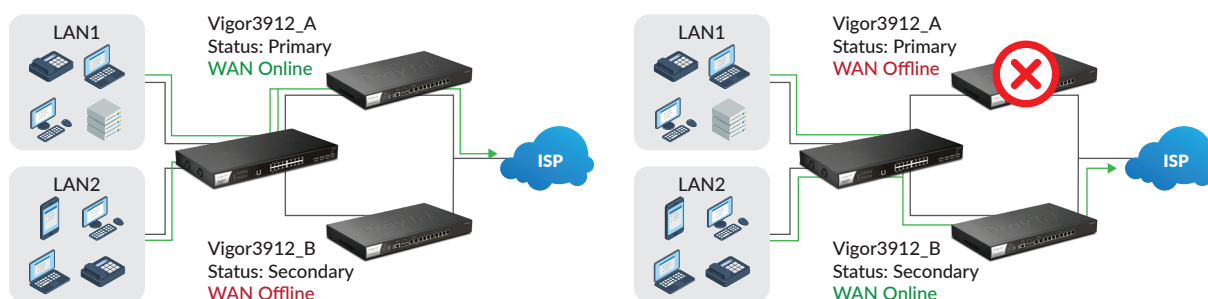
High Availability

High Availability allows hardware redundancy between two or more identical routers, ensuring steady network connectivity in case of network interruptions or hardware failures.

DrayTek routers adopt Common Address Redundancy Protocol (CARP) for High Availability. The routers will share a Virtual IP address, which is used to broadcast the MAC address of the secondary router if the primary router fails.

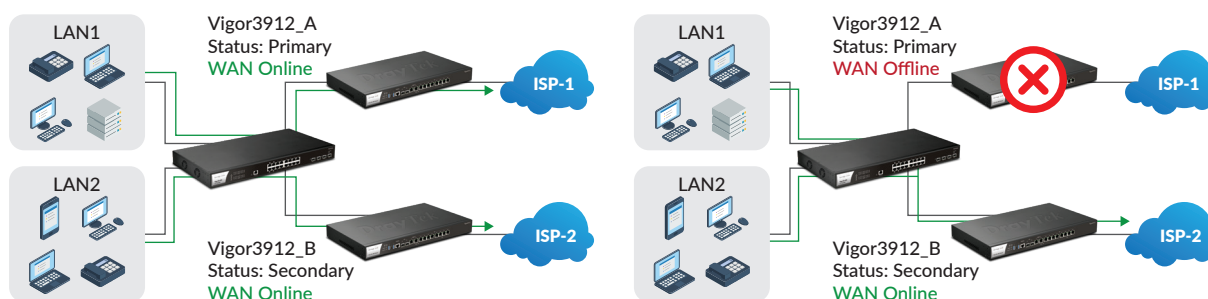
Two Redundancy modes are available: Hot-Standby and Active-Standby. The latest firmware now includes VRRP (Virtual Router Redundancy Protocol) which means two different router models can be used for H.A. mode. Operation will be similar to Active Standby mode.

Hot-Standby



	WAN Source	Online Status	Configuration Sync
Hot-Standby	Primary and Secondary share the same WAN source. To achieve this, a modem with several Ethernet ports or a hub/switch is required	Only Primary is online. When Primary goes down, Secondary takes over and uses the same WAN line to dial up	Configuration Sync from Primary to Secondary

Active-Standby



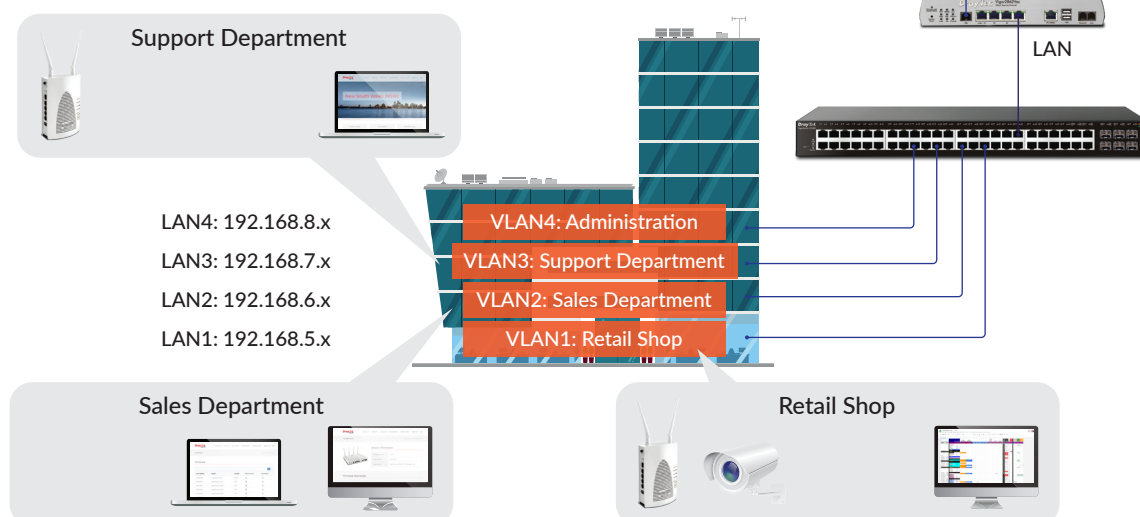
	WAN Source	Online Status	Configuration Sync
Active-Standby	Primary and Secondary have different WAN sources	Both Primary and Secondary are online via their own different WAN lines	No Configuration Sync

LAN/VLAN

DrayTek routers support multiple VLANs for segregating networks, with each workgroup assigned an IP subnet. The number of VLANs depends on the router model, ranging from 8 in the Vigor2765 to 100 in the Vigor3912.

VLAN Configuration

2.2.2. Configuration												
☒ Enable	LAN				Wireless LAN				VLAN Tag			
	P1	P2	P3	P4	SSID1	SSID2	SSID3	SSID4	Subnet	Enable	VID	Priority
VLAN0	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾
VLAN1	☐	☐	☐	☒	☐	☐	☐	☒	LAN 1 ▾	☒	10	4 ▾
VLAN2	☐	☒	☒	☐	☒	☐	☐	☐	LAN 2 ▾	☒	20	3 ▾
VLAN3	☐	☒	☐	☒	☒	☐	☐	☐	LAN 3 ▾	☒	30	2 ▾
VLAN4	☒	☒	☒	☐	☒	☐	☐	☐	LAN 4 ▾	☒	40	1 ▾
VLAN5	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾
VLAN6	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾
VLAN7	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾
VLAN8	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾
VLAN9	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾
VLAN10	☐	☐	☐	☐	☐	☐	☐	☐	LAN 1 ▾	☐	0	0 ▾



A Virtual Local Area Network (VLAN) allows computers and devices of member workgroups to have unified network settings such as NAT rules, Firewall rules and QoS, despite being in different locations within a building or even different buildings.

Benefits of Using VLANs

1. VLANs increase the number of broadcast domains, reducing latency and traffic load on the network devices, therefore reducing congestion and improving network performance.
2. Network elements in different locations can be configured to be within the same VLAN group with the same network settings, allowing flexibility in network deployment.
3. Real-time services such as VoIP or video streaming can be configured in separate VLANs and be isolated from network congestion caused by traffic from other data types.
4. VLANs enhance network security among workgroups, so company data is only accessible by authorised staff within the VLAN group.
5. VLANs allow easy, flexible expansion and relocation of network devices and workgroups.
6. VLANs allow network administrators to configure the network in a centralised environment.

Firewall

Extensive firewall features in DrayTek routers enhance network security to safeguard company networks from malicious attacks and enforce company policies on Internet content access. This includes IP-based restrictions to filter specific HTTP traffic, helping to prevent wastage of company time and misuse of network resources on inappropriate activities that could lead to lawsuits.

Stateful Packet Inspection (SPI) Firewall and flexible filtering rules in DrayTek routers accept or deny packets based on information in the packet header (such as source IP, destination IP, protocol, and port number) or the packet's application.

The Object-based Firewall simplifies the creation of multiple firewall filter rules by re-using predefined objects. These objects include IP Objects, IPv6 Objects, Country Objects and Service Objects. Many of these objects can be combined into group objects to further simplify configuration of firewall filter rules. For example, an IP Group Object can be used in multiple firewall filters without the need to list all the IP addresses in each firewall filter rule, thus saving time and simplifying firewall configuration.

Another object is the Keyword Object which can be applied to URL and Web Content Filtering.

Types of filters that can be applied to the firewall are:

- Quality of Service – Permits or denies data matching the Quality of Service classification configured in Bandwidth Management settings in the router
- User Management – Used to enforce Rule-Based settings for user authentication when access to the Internet is required
- APP Enforcement – Controls access to various applications such as Instant Messaging, P2P, tunnelling, Streaming as well as many protocols
- URL Content Filter – Controls access to various web sites based on the web site URL
- Web Content Filter – Controls access to web sites matching a selected category such as child protection, violence, illegal software. More details on page 54
- DNS Filter – Allows the firewall to block secure (encrypted) HTTPS websites

DoS Defence

DoS (Denial of Service) Defence protects the network against DoS attacks, which are malicious cyber attacks that flood the network with superfluous connect requests thus overloading and preventing the network from responding to other legitimate requests.

Firewall >> Defense Setup

DoS Defense **Spoofing Defense**

DoS defense

☐ Enable DoS Defense Log:

☐ Enable SYN flood defense	Threshold	2000	packets / sec
	Timeout	10	sec
☐ Enable UDP flood defense	Threshold	2000	packets / sec
	Timeout	10	sec
☐ Enable ICMP flood defense	Threshold	250	packets / sec
	Timeout	10	sec
☐ Enable Port Scan detection	Threshold	2000	packets / sec
☐ Block IP options	☐ Block TCP flag scan		
☐ Block Land	☐ Block Tear Drop		
☐ Block Smurf	☐ Block Ping of Death		
☐ Block trace route	☐ Block ICMP fragment		
☐ Block SYN fragment	☐ Block Unassigned Numbers		
☐ Block Fraggle Attack			

Content Security Management (CSM)

Action:

Security

☐ Bot Nets	☐ DNS Over HTTPS	☐ Hacking
Select All	☐ Keyloggers and Monitoring	☐ Malware Sites
Clear All	☐ Phishing and other Frauds	☐ Proxy Avoidance and Anonymizers
	☐ Spyware and Adware	☐ Parked Domains
		☐ SPAM URLs

Parental Control

☐ Abortion	☒ Abused Drugs	☒ Adult and Pornography
☒ Alcohol and Tobacco	☒ Cheating	☒ Cult and Occult
Select All	☒ Gross	☒ Hate and Racism
Clear All	☒ Low-THC Cannabis Products	☒ Marijuana
	☒ Questionable	☒ Self Harm
	☒ Swimsuits and Intimate Apparel	☒ Sex Education
		☒ Violence
		☒ Weapons

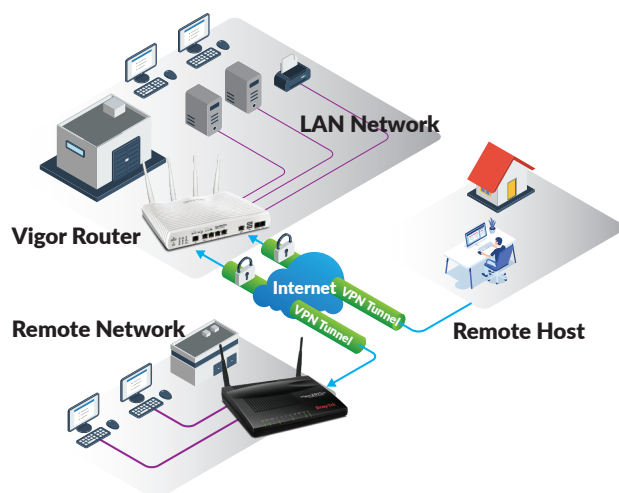
Productivity

☐ Auctions	☐ Computer and Internet Info	☐ Content Delivery Networks
☐ Dating	☐ Gambling	☐ Games
☐ Home and Garden	☐ Hunting and Fishing	☐ Image and Video Search
☐ Individual Stock Advice and Tools	☐ Internet Communications	☐ Job Search
☐ Motor Vehicles	☐ Music	☐ Pay to Surf
☐ Peer to Peer	☐ Personal Storage	☐ Real Estate
☐ Shareware and Freeware	☐ Shopping	☐ Social Networking
☐ Sports	☐ Streaming Media	☐ Training and Tools
☐ Web Advertisements	☐ Web Hosting	☐ Generative AI

CSM protects the network from various Internet applications and web content through APP Enforcement, URL Content Filter, Web Content filter and DNS Filter as described above.

VPN

A Virtual Private Network (VPN) allows a server/computer to securely communicate with other computers across the Internet. It provides a secure and low-cost method to extend office networks, eliminating the need for dedicated links among multiple sites to securely exchange data.



DrayTek Vigor routers support VPN connectivity in 2 modes : **LAN-to-LAN** and **Dial-in**.

LAN-to-LAN (Site-to-site) mode connects a branch office or home office to the head office to share resources. Through one VPN tunnel many users can be connected over the Internet.

Dial-in (Teleworker) mode allows a single user running a VPN client on their PC, tablet or smart phone to set up a VPN tunnel for secure communication with the head office network.

Latest Protocols Support

DrayTek Vigor VPN routers support industry-standard VPN protocols, including GRE, PPTP, L2TP, L2TP over IPsec, IPsec, IKEv2, SSL VPN, OpenVPN, and WireGuard*.

** DrayOS 5 routers only support IPsec, OpenVPN and WireGuard.*

Easy & Fast Configuration

DrayTek Vigor routers include a quick start wizard for users to quickly configure and establish a VPN tunnel with minimal effort. In addition, the web-based configuration menu for both LAN-to-LAN and Dial-in VPN connections provides a user-friendly interface to quickly configure the required VPN profiles needed to connect all sites. There is no need to specify firewall rules and routing policies.

Business-class Performance

Every DrayTek VPN router is equipped with a dedicated VPN co-processor for AES, DES, and 3DES encryption, maintaining maximum router performance while keeping all the data encrypted.

VPN Management

Features such as DHCP Relay, Multicasting, and Port Forwarding in DrayTek Vigor routers can be extended to VPN tunnels, allowing local area network management features across multiple locations.

3rd Party Compatibility

By using the standard protocols, Vigor routers can build LAN-to-LAN VPN tunnels with other router brands and fit into your current network infrastructure.

No Additional Costs

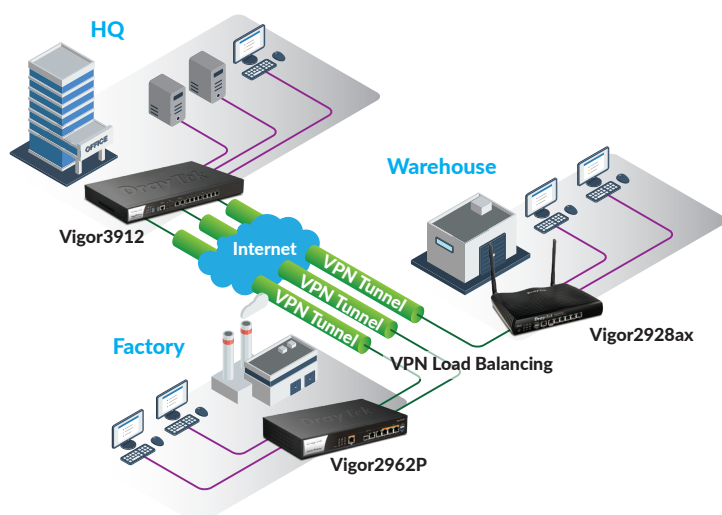
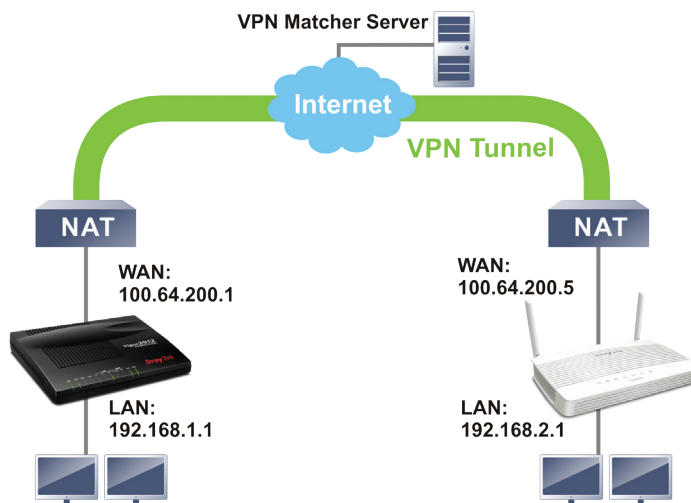
All VPN services and features are included in DrayTek Vigor routers with no additional licencing fees. The DrayTek Smart VPN Client is also available as a free download for Windows, macOS, Android and iOS Dial-in VPN users.

VPN

VPN Matcher

VPN Matcher is a service provided by DrayTek to establish a secure VPN tunnel between two DrayTek routers behind NAT. These can be routers connected to the Internet via a 4G/LTE modem which usually only provide a private IP address to the router WAN Interface resulting in difficulty establishing VPN connections. DrayTek provides a VPN Matcher server to exchange the connection information between VPN Server and client to successfully establish a VPN tunnel.

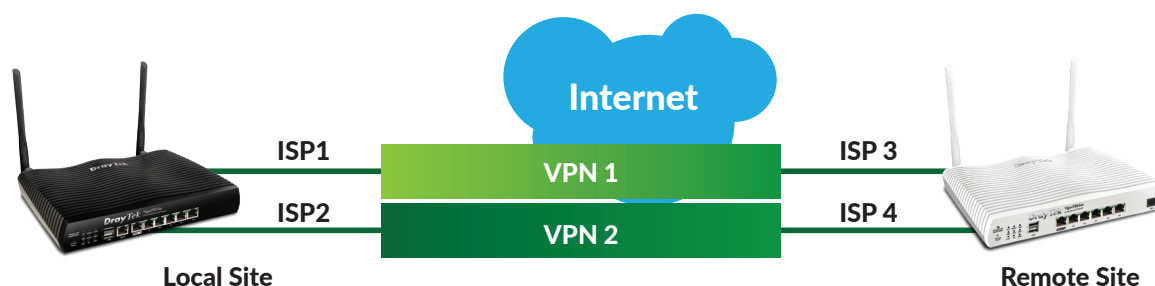
VPN Matcher can also be used for dial-in VPN connection from a PC running Smart VPN client to a VPN server behind NAT.



VPN Load Balance

VPN Load Balancing is a feature which combines two or more individual VPN connections to form a single VPN trunk. VPN traffic is then transmitted over the combined link, with each individual VPN link in the trunk connection determined by the Real Time Bandwidth of each link, thereby sharing the traffic load and increasing the throughput of the link.

The VPN Load Balance feature can be useful when a site's WAN connection has limited network speed. It combines VPNs over two WAN links, effectively increasing link capacity between the two sites.



Each WAN connection can be from different service providers thus improving the reliability of the VPN tunnel. If one of the connections fails, the other link will still be working and keep the VPN connection going.

VPN

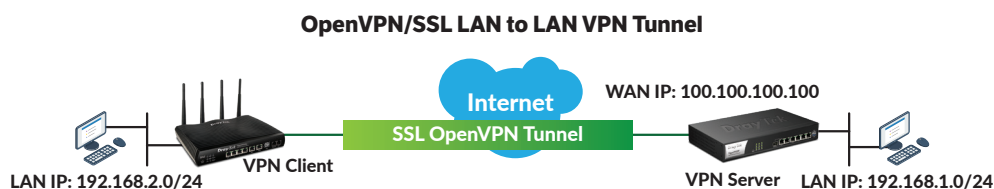
Most DrayTek routers feature built-in VPN tunnels. The number varies from two in lower end series right up to five hundred in the Vigor3912. The latest VPN protocols supported include IPsec (IKEv1 & IKEv2), OpenVPN and WireGuard.

IPsec

IPsec is the industry standard for business VPNs, utilising pre-shared keys for authentication. While typically requiring static IPs, DrayTek's "Aggressive Mode" bypasses this by using Peer IDs instead.

OpenVPN

OpenVPN uses standard TLS encryption (HTTPS) for secure LAN-to-LAN and remote access. The Vigor solution adds free client apps, DrayDDNS, and built-in certificates. Because it relies on SSL protocols, it easily bypasses strict firewalls by mimicking standard web traffic.



WireGuard

WireGuard is a newer type of open-source VPN promising faster speeds and greater security than OpenVPN whilst also being easier to use. It works by exchanging public keys, much like SSH, and uses the latest cryptography including Curve25519, ChaCha20, Poly1305, BLAKE2, SipHash24, and HKDF.

EasyVPN

Available in DrayOS 5, EasyVPN allows the use of multiple VPN protocols, IPsec, OpenVPN and WireGuard, then if the preferred protocol is unavailable, EasyVPN will automatically choose another. Setup for the end user is simplified since it removes the need to generate WireGuard keys, import OpenVPN configuration files, or upload certificates.

Built-in Server Certificate Creator

Verifying the server certificate ensures the identity of the server and protects VPN clients against man-in-the-middle attacks. DrayTek Vigor routers can act as the root CA to generate and sign the server certificate required for secure SSL connections.

Free Smart VPN

The DrayTek Smart VPN client is a free multi-platform application available for download on Windows, macOS, iOS, and Android. With no software licensing required, this application allows the user to seamlessly create and configure VPN profiles for DrayTek routers.

Flexible Client Authentication Options

The local user database in the router can be used to authenticate VPN clients or alternatively use an external authentication server on the local network which can be RADIUS, LDAP, and TACACS+.

Use a Domain Name for the Server

DrayTek's dynamic DNS service offers each Vigor router a hostname on the domain drayddns.com. It is free and only needs to be renewed every two years. With DrayDDNS, VPN clients are able to access the router through a fixed hostname of choice.

LAN Management

Various management features are available in DrayTek routers to control user access to the network, limit bandwidth usage and centrally manage other DrayTek devices.

User Management

The User Management feature available in dual-WAN and multi-WAN routers allows the creation of user accounts to manage who has access to the network or the Internet. Users can be authenticated from an internal database or RADIUS server as well from external authentication servers such as LDAP, RADIUS and TACACS+ servers.

Authenticated users can be directed to the company Landing Page to view important information. In addition, a daily time and data quota can be set, and permitted log in times according to a time schedule can be configured.

Rule-Based and User-Based management features can also be used to invoke firewall rules when certain conditions are met relating to accessing Internet content. For example, there may be unrestricted access to the local company network, but only certain Internet web sites can be accessed.

Bandwidth Management

Control data flow and prioritise traffic with the Bandwidth Management feature in DrayTek routers. Four options are available within Bandwidth Management.

Session Limit

Session limit creates restrictions for upstream and downstream bandwidth to any device on the network by limiting the number of sessions permitted for each device identified by its IP address. Session refers to a single connection between a PC on the network and a server on the Internet. Some applications such as BitTorrent can use a huge number of sessions which can cause network congestion. Session limit can be applied to these devices to improve network performance.

Bandwidth Limit

This feature sets limitations on Upstream and Downstream Bandwidth allocated to any device on the network based on its IP Address. This alleviates network congestion by preventing an individual device or a group of devices from using all the available network bandwidth. The Smart Bandwidth Limit will automatically allocate more bandwidth to devices when spare capacity is available on the Internet connection.

Quality of Service (QoS)

Quality of Service prioritises certain traffic types when accessing the Internet. For example, VoIP traffic is required to have a higher priority than HTTPS traffic. Four priority classes can be configured for each traffic type and minimum allocated bandwidth can be specified for each priority class.

App QoS

Enable QoS for a range of applications in the App QoS feature in DrayTek routers. Applications include Internet Messaging, VoIP, Peer to Peer (P2P), Streaming and many others.

Certificate Management

Certificate Management in DrayTek routers will help generate either a local certificate or Trusted CA certificate to be used for authentication in the router. It can be used for X.509 authentication for VPN connections.

Central Management

Central Management in DrayTek routers provides a centralised console to monitor, manage and configure DrayTek devices on the network. Management options vary by router but include **Virtual Controller**, **Central AP Management**, and **Central Switch Management**.

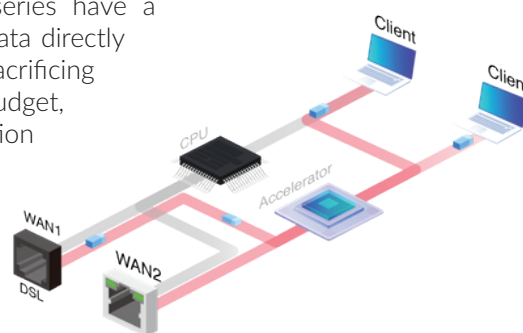
Hardware Acceleration

What is Hardware Acceleration

Hardware acceleration is the use of computer hardware designed to perform specific functions more efficiently when compared to software running on a general-purpose central processing unit. DrayTek routers have a dedicated hardware component labelled as Accelerator which performs tasks which are usually handled by the CPU. This means the CPU will have less load and perform better. Using hardware acceleration provides an increase in WAN throughput through NAT acceleration. Hardware based QoS was introduced in firmware version 4.4.0 in later model routers to greatly improve quality of service performance. This is an improvement over software based QoS processing which placed a load on the CPU, which under heavy traffic conditions may have not been able to efficiently process all the data. Hardware acceleration in later model DrayTek routers greatly improves IPsec VPN performance as well.

DrayTek routers such as the Vigor2865 and Vigor2927 series have a dedicated hardware accelerator component that processes data directly from memory and sends the result to the CPU without sacrificing traffic control features such as QoS, Bandwidth Limit, WAN Budget, Traffic Graph and Data Flow Monitor. Hardware Acceleration enhances performance for:

- NAT & routing connections
- QoS
- IPsec VPN



Configuration

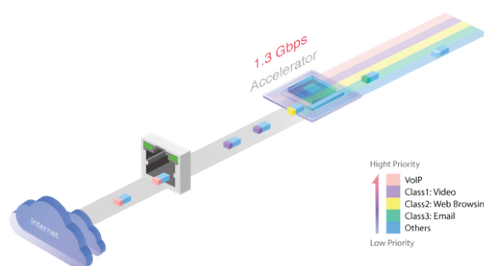
Hardware acceleration is usually enabled by default in higher model routers. In most other models it can be enabled from the web GUI and the following traffic types and protocols to accelerate can be selected:

- NAT (TCP and UDP)
- IPsec (TCP and UDP)

The Exception List allows LAN hosts to be excluded from either NAT or IPsec and not have their traffic accelerated.

Hardware QoS

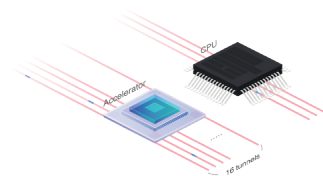
Hardware QoS allows prioritisation of applications and services on DrayTek routers to improve performance of critical applications such as VoIP, conferencing and video streaming. Furthermore, it allows flexible bandwidth allocation to suit business requirements.



Hardware IPsec

With Hardware Acceleration enabled, IPsec performance can now reach 800 Mbps in the Vigor2865 and Vigor2927 series routers. The first 16 tunnels are automatically accelerated on a first come first serve basis. If any drop out, a new tunnel will be put into the accelerator automatically to top off 16 accelerated tunnels.

In the Vigor3912/2962, Hardware Acceleration is enabled by default, giving IPsec VPN performance up to 5.7 Gbps in the Vigor3912 and 1 Gbps in the Vigor2962.



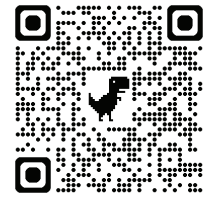
Vigor2867 Series

Multi-WAN routers with 1 x GbE WAN port, 1 x VDSL2 port, 1 x 10GbE WAN/LAN port, 1 x 10Gb SFP+ LAN slot, 1 x 2.5GbE LAN port, 3 x GbE LAN ports, and 50 x IPsec/OpenVPN/WireGuard VPN tunnels

Each model features a Gigabit Ethernet WAN port (P1) for broadband services via Ethernet, such as UFB in New Zealand or FTTP, FTTC, HFC, Satellite, and Fixed Wireless in Australia. Additionally, they include a triple-combo port with two more WAN options: a built-in xDSL (ADSL/VDSL2) port (P2) for FTTN and FTTB connections, a 10Gb Ethernet WAN/LAN port (P3), and a 10Gb SFP+ LAN slot (P4). Any two of these three ports can be used simultaneously, and P3 can also serve as a high-speed LAN port when not used as a WAN. 4G LTE connectivity is available via an external 4G USB modem, and all WAN interfaces support Load Balance or Failover modes.

Robust hardware acceleration improves NAT and IPsec performance without sacrificing important traffic control features such as QoS, bandwidth limit, WAN budget, traffic graph and data flow monitor.

Equipped with an object-oriented SPI Firewall, IPv6, 50 simultaneous IPsec/OpenVPN/WireGuard VPN tunnels, tag-based VLAN, multiple subnets and a set of traffic management features, this series of routers is an excellent solution for SOHO and business markets. The Vigor2867be features 802.11be (BE7200) Wi-Fi with 4x5 MIMO (1376 Mbps for the 2.4 GHz band and 5765 Mbps for the 5 GHz band).



More info

Models

Vigor2867
Vigor2867be

Specifications

- 1 x GbE WAN port
- 1 x VDSL2 35b WAN port
- 1 x 10GbE WAN/LAN port
- 1 x 10Gb SFP+ LAN slot
- 1 x 2.5GbE LAN port
- 3 x GbE LAN ports
- Object-oriented SPI Firewall
- Up to 60,000 NAT Sessions
- IPv6 & IPv4
- Rack-mountable
- High Availability (CARP) with hardware redundancy
- 50 x IPsec/OpenVPN/WireGuard VPN tunnels
- 802.11be (BE7200) Wi-Fi (be model)
- 2 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 10 Switches
- Works with VigorACS 3 management system

Vigor2767 Series

Dual WAN* VDSL2 routers with 1 x VDSL modem, 1 x configurable 2.5GbE WAN/LAN port, 3 x GbE LAN ports and 16 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2767 series of routers support ADSL2+ and VDSL2 connections, and the 2.5 Gigabit LAN port (P1) can be configured as a WAN interface to connect to any Ethernet-based WAN. The inclusion of xDSL and an Ethernet WAN port means that these routers are compatible with all Internet technology types (FTTP, FTTC, FTTB/N, HFC, Satellite or Fixed Wireless) deployed by nbn™ in Australia and UFB in New Zealand.

With features such as an object-oriented SPI Firewall, VPN and two USB ports for 4G LTE mobile broadband access, printer, and storage, this series of routers is an excellent solution for domestic and SMB markets.

The Vigor2767ax supports 802.11ax (AX3000) Wi-Fi (configurable to be either LAN or WAN) with combined wireless speeds of up to 2976Mbps (574Mbps on the 2.4 GHz band and 2402Mbps on the 5 GHz band). Business grade Wi-Fi features such as AirTime Fairness, Router-Assisted Roaming, and Band-Steering ensure there is a reliable wireless connection for bandwidth sensitive applications like HD videos, gaming and Internet phones.



More info

Models

Vigor2767
Vigor2767ax

Specifications

- Dual WAN Load Balancing*
- 1 x VDSL2 35b WAN port
- 1 x 2.5 GbE WAN/LAN port
- 3 x GbE LAN ports
- Object-oriented SPI Firewall
- Up to 50,000 NAT Sessions
- IPv6 & IPv4
- 802.11ax (AX3000) Wi-Fi (ax model)
- 16 x IPsec/OpenVPN/WireGuard VPN tunnels
- 2 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 5 Switches
- Works with VigorACS 3 management system

* Available from firmware v5.4.0

Vigor167

VDSL2/ADSL2+ modem/router with 2 x GbE LAN ports

The Vigor167 is an IPv6-ready ADSL2+/VDSL2 router for SOHO and residential broadband access requirements. This compact router can be deployed in nbn™ FTTN/FTTB installations as a standalone router or can be configured for bridge mode to interface with Ethernet broadband equipment lacking a VDSL2 Internet connection.

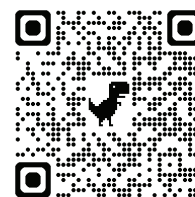
The Vigor167 series router supports VDSL2 35b Super Vectoring which allows maximum speeds of 300 Mbps downstream and 100 Mbps upstream at a distance of 250 metres from the DSLAM.

In addition to powerful firewall protection against malicious Denial of Service (DoS) attacks, the Vigor167 is designed with advanced security features such as Stateful Packet Inspection (SPI) to offer network reliability by detecting attacks and preventing malicious packets from penetrating the internal network. URL content filtering is also available for blocking access to inappropriate websites.



Specifications

- 1 x VDSL2/ADSL2+ WAN port (VDSL Profile: up to 35b)
- 2 x Gigabit Ethernet LAN ports
- VDSL2 Super Vectoring
- Bridging for VDSL2 and ADSL2+
- Object-oriented SPI Firewall
- IPv6 & IPv4
- Works with VigorACS 3 management system



More info

Vigor3912 Series

Octuple-WAN broadband routers with SSD 256GB (3912S only), 2 x 10Gb SFP+ WAN/LAN slots, 2 x 2.5GbE WAN/LAN ports, 4 x GbE WAN/LAN ports and 4 x 1GbE LAN ports; 500 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor3912 series are Multi-WAN high-performance enterprise level broadband routers with 2 x 10Gb SFP+ Fibre configurable WAN/LAN slots, 2 x 2.5GbE configurable WAN/LAN ports, 4 x 1GbE configurable WAN/LAN ports, and 4 x 1GbE fixed LAN ports.

With 15.6 Gbps Max. NAT throughput and Software Acceleration (bi-directional), 1,000k NAT sessions and other enterprise level features, the Vigor3912 routers are an excellent solution for network applications in corporations, organisations and governments. They can handle up to 500 VPN tunnels including 200 OpenVPN /SSL-VPN tunnels, and 100 IP subnets simultaneously. The Vigor3912S model includes a 256 GB SSD which is used to run Suricata, as well as other Linux Docker applications such as VigorConnect, Portainer, and more.

The session-based Load Balance feature allows the aggregation of multiple WAN connections to provide a higher speed internet connection. In addition to the Load Balance and Failover multi-WAN functions, the Vigor3912 supports High Availability (Common Address Redundancy Protocol) with hardware redundancy to ensure 24/7 system uptime for all WAN interfaces.

The Central Management feature provides a centralised console to manage networks. It includes AP Management to configure and manage up to 50 DrayTek Access Points, and Switch Management to configure and manage up to 30 DrayTek VigorSwitches.



More info

Models	Vigor3912	Vigor3912S
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Specifications

- 2 x 10Gb SFP+ Fibre configurable WAN/LAN slots
- 2 x 2.5GbE configurable WAN/LAN ports
- 4 x 1GbE configurable WAN/LAN ports
- 4 x 1GbE fixed LAN ports
- 2 x USB 3.0 ports
- 256GB SSD Storage (3912S model)
- High Availability
- Object-oriented SPI Firewall
- Multi-subnet WAN/LAN through 802.1Q
- IPv6 & IPv4
- 500 x IPsec/OpenVPN/WireGuard VPN tunnels
- Rack-mountable
- Bandwidth management
- Works with VigorACS 3 management system
- AP Management (up to 50 Access Points)
- Switch Management (up to 30 Switches)

Vigor2963 Series

Dual-WAN 10G broadband routers with 1 x 10GbE & 1 x 10Gb SFP+ WAN combo ports, 1 x 10Gb SFP+ LAN port, 5 x 2.5GbE LAN ports, 4 x GbE LAN ports, PoE++ & PoE+ (Vigor2963P only), and 200 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2963 dual-WAN broadband routers feature comprehensive Firewall and VPN capabilities with a combo 10 Gigabit Ethernet or SFP+ WAN port, a configurable 2.5 Gigabit SFP+ WAN/LAN port, a 2.5 Gigabit Ethernet WAN/LAN port, five 2.5 Gigabit LAN ports and four Gigabit LAN ports. This series will support technology types FTTP, FTTC, HFC, Satellite and Fixed Wireless deployed by nbn™ in Australia and UFB in New Zealand.

Also featured is a tray for an SSD which can be used to run Linux Docker applications such as Suricata, VigorConnect, Portainer, and more.

Load Balance and Failover functions allow flexible and secure Internet access options. The Object-Oriented SPI Firewall, 200 VPN tunnels and Gigabit LAN speed make this router an excellent solution for SOHO and business deployment.

The Central Management feature provides a centralised interface to manage the network. It includes AP Management, and Switch Management. Each management tool offers configuration and management of up to 50 DrayTek Access Points and 30 DrayTek switches on the network, respectively.

The Vigor2963P model includes PoE++ on LAN ports P3-P6 and PoE+ on LAN ports P7-P10, with a total power budget of 240 Watts making it suitable for supplying power to Access Points, IP phones, etc.



More info

Specifications

- | Models | Vigor2963 | Vigor2963P |
|--|--|------------|
| <ul style="list-style-type: none">Dual-WAN Load Balancing & Failover1 x 10GbE & 1 x 10Gb SFP+ WAN combo ports1 x 10Gb SFP+ LAN slot5 x 2.5GbE LAN ports (4 x PoE++ with Vigor2963P)4 x GbE LAN ports (4 x PoE+ with Vigor2963P)2 x USB 3.0 ports (For storage and USB Thermometer)1 x SSD storage tray for Linux applications (Suricata)Micro SD slot for file storage or log collectionPower budget up to 240 Watts (Vigor2963P only) | <ul style="list-style-type: none">High Availability ModeObject-oriented SPI FirewallMulti-subnet WAN/LAN through 802.1QIPv6 & IPv4200 x IPsec/OpenVPN/WireGuard VPN tunnelsRack-mountableBandwidth managementWorks with VigorACS 3 management systemAP Management (up to 50 Access Points)Switch Management (up to 30 Switches) | |

Vigor2928 Series

Multi-WAN routers with 1 x GbE WAN port, 1 x 10Gb SFP+ WAN slot, 1 x 10GbE WAN/LAN port, 1 x 10Gb SFP+ LAN slot, 1 x 2.5GbE LAN port, 3 x GbE LAN ports, and 50 x IPsec/OpenVPN/WireGuard VPN tunnels

Apart from the Gigabit Ethernet WAN port (P1) for broadband services that use an Ethernet interface (such as UFB in New Zealand or FTTP, FTTC, HFC, Satellite, and Fixed Wireless in Australia), all models feature a triple-combo port with two additional WAN options: a 10Gb SFP+ WAN slot (P2), a 10Gb Ethernet WAN/LAN port (P3), and a 10Gb SFP+ LAN slot (P4). Any two of these three ports can be used simultaneously, and port P3 can also be configured as a high-speed LAN port when not serving as the WAN. 4G LTE connectivity is also featured (via an attached 4G USB modem), and all WAN interfaces can be configured for use in Load Balance mode or Failover mode.

Equipped with an object-oriented SPI Firewall, IPv6, 50 simultaneous IPsec/OpenVPN/WireGuard VPN tunnels, Tag-based VLAN, multiple subnets and a set of traffic management features, these routers are an excellent choice for SOHO to business markets. The Vigor2928be features 802.11be (BE7200) Wi-Fi with 4x5 MIMO (1376 Mbps for the 2.4 GHz band and 5765 Mbps for the 5 GHz band).

Central Management features provide a centralised console to manage networks, including Virtual AP Controller to configure and to manage up to 19 DrayTek wireless Access Points, and Virtual Switch Controller to configure and to manage up to 10 DrayTek switches.

These routers can be mounted using a 1RU rack mount bracket (DR101) on a standard 19" rack or cabinet.



More info

Models

Vigor2928

Vigor2928be

Specifications

- 1 x GbE WAN port
- 1 x 10Gb SFP+ WAN slot
- 1 x 10GbE WAN/LAN port
- 1 x 10Gb SFP+ LAN slot
- 1 x 2.5GbE LAN port
- 3 x GbE LAN ports
- Object-oriented SPI Firewall
- Up to 60,000 NAT Sessions
- IPv6 & IPv4
- Rack-mountable
- High Availability (CARP) with hardware redundancy
- 50 x IPsec/OpenVPN/WireGuard VPN tunnels
- 802.11be (BE7200) Wi-Fi (be model)
- 2 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 10 Switches
- Works with VigorACS 3 management system

Vigor2230 Series

10 Gigabit broadband routers with 10GbE/1 x SFP+ combo WAN port, 1 x 10 GbE LAN port, 4 x GbE LAN ports and 16 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2230 broadband routers include one 10GbE/1 x SFP+ combo WAN port, one 10 GbE LAN port and four Gigabit Ethernet LAN ports. The Ethernet WAN port supports technology types FTTP, FTTC, HFC, Satellite and Fixed Wireless deployed by nbn™ in Australia and UFB in New Zealand.

Features including an Object-oriented SPI Firewall, IPv6, 16 simultaneous IPsec/OpenVPN/WireGuard VPN tunnels, Tag-based VLAN, multiple subnets and traffic management make the Vigor2230 series an excellent choice for all environments from Domestic to SOHO.

The Vigor2230 model support the 802.11be (BE7200) Wi-Fi standard (configurable to be either LAN or WAN) and a full set of business grade Wi-Fi functions, such as Multiple/Hidden SSID, WDS, AP Discovery, SSID VLAN grouping with LAN ports, Wireless Rate Control and WMM (Wi-Fi Multimedia).



Models	Vigor2230	Vigor2230be
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Specifications

- 1 x 10GbE/1 x 10Gb SFP+ combo WAN port
- 1 x 10GbE LAN port
- 4 x Gigabit Ethernet LAN ports
- Object-based SPI Firewall
- Up to 50,000 NAT Sessions
- IPv6 & IPv4
- 802.11be (BE7200) Wi-Fi (be model)
- 16 x IPsec/OpenVPN/WireGuard VPN tunnels
- 1 x USB 3.0 port and 1 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 5 Switches
- Works with VigorACS 3 management system

Vigor2136 Series

Dual WAN* 2.5 Gigabit broadband routers* with 1 x 2.5GbE WAN port, 1 x configurable 2.5 GbE WAN/LAN port, 3 x GbE LAN ports and 16 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2136 broadband routers include one 2.5 Gigabit Ethernet WAN port, one 2.5 Gigabit Ethernet configurable LAN/WAN port and three Gigabit Ethernet LAN ports. The Ethernet WAN port supports technology types FTTP, FTTC, HFC, Satellite and Fixed Wireless deployed by nbn™ in Australia and UFB in New Zealand.

Features including an Object-oriented SPI Firewall, IPv6, 16 simultaneous IPsec/OpenVPN/WireGuard VPN tunnels, Tag-based VLAN, multiple subnets and traffic management make the Vigor2136 series an excellent choice for all environments from Domestic to SOHO.

The Vigor2136ax model support the 802.11ax Wi-Fi standard (configurable to be either LAN or WAN) and a full set of business grade Wi-Fi functions, such as Multiple/Hidden SSID, WDS, AP Discovery, SSID VLAN grouping with LAN ports, Wireless Rate Control and WMM (Wi-Fi Multimedia).



Models	Vigor2136	Vigor2136ax
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Specifications

- Dual WAN Load Balancing*
- 1 x 2.5 GbE WAN port
- 1 x 2.5 GbE LAN/WAN port
- 3 x Gigabit Ethernet LAN ports
- Object-based SPI Firewall
- Up to 50,000 NAT Sessions
- IPv6 & IPv4
- 802.11ax (AX3000) Wi-Fi (ax model)
- 16 x IPsec/OpenVPN/WireGuard VPN tunnels
- 2 x x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 5 Switches
- Works with VigorACS 3 management system

* Available from firmware v5.4.0

5G Broadband

The modern business landscape demands connectivity that is not only fast but also incredibly reliable and versatile. DrayTek's 5G cellular solutions are designed to meet these demands, providing an ideal upgrade to existing networks. Whether used indoors, outdoors, or on the move, DrayTek 5G routers deliver instantaneous Wi-Fi and robust internet access, capable of replacing traditional fibre connections in many scenarios.

DrayTek leverages the power of 5G to offer superior performance across four key areas critical for modern applications.

Blazing Fast Speed

DrayTek 5G routers utilise the increased bandwidth of 5G networks to deliver download and upload speeds that rival, and often exceed, traditional wired broadband. This enables seamless 4K/8K video streaming, rapid file transfers, and instant deployment of high-speed Wi-Fi networks anywhere.

Low Latency for Real-Time Applications

Lower latency is crucial for interactive applications. DrayTek 5G solutions significantly reduce lag, ensuring smooth performance for mission-critical tasks such as video conferencing, cloud gaming, and remote real-time system management.

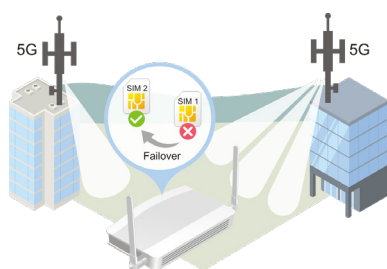
Better Capacity in Dense Areas

5G technology is designed to handle a vastly larger number of simultaneous connections compared to previous mobile broadband generations. DrayTek routers excel in crowded environments like convention centres, shopping malls, or busy offices, ensuring stable connectivity for numerous IoT devices and user terminals simultaneously.

High Reliability

By supporting a wide range of global cellular bands and utilising robust hardware, DrayTek ensures "always-on" connectivity. The solutions are built to provide consistent internet access, minimising network downtime.

Applications of 5G WAN Routers



High-Speed Internet for Primary or Backup Connectivity

Provides reliable, fast internet for critical business operations or as a backup solution to ensure continuity during primary service disruptions.



Industrial IoT and Smart Factories

Enhances the efficiency of industrial processes, such as monitoring production lines, inventory management, and logistics, with real-time data exchange between machines.

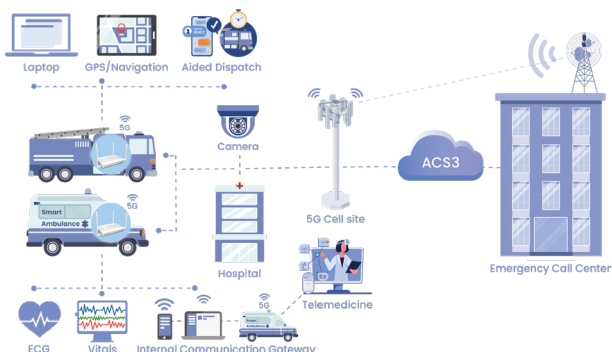


Remote Work and Temporary Setups

Enables seamless connectivity for remote workers, mobile offices, e-learning, and any other temporary workstations.

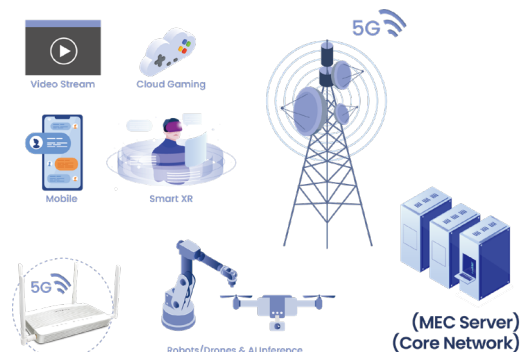
5G Broadband

Applications of 5G WAN Routers



Video Streaming and Media Broadcasting

Supports high-quality live streaming and real-time media broadcasting, ensuring reliable internet for surveillance, public safety, telemedicine, and remote healthcare.



Online Gaming and VR/AR Experiences

Delivers ultra-low latency, allowing smooth, lag-free experiences for online gaming, virtual reality, and augmented reality applications.



Surveillance and Remote Monitoring

Provides real-time video streaming for remote surveillance, ensuring secure, low-latency monitoring for intelligent traffic systems and diverse locations.



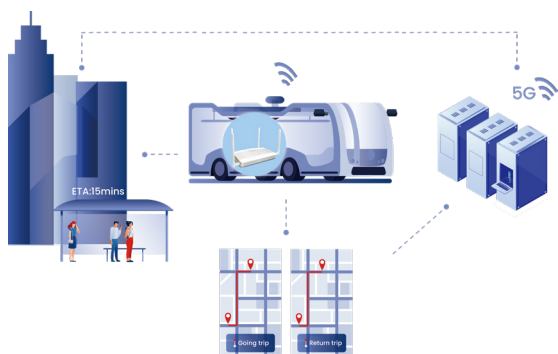
Edge Computing for IoT-Driven Real-Time Data Processing

Enables real-time data processing at the edge of the network for IoT devices, reducing latency and enhancing performance in applications like AI, analytics, and smart systems.



Smart City Infrastructure

Powers connected systems like traffic lights, public sensors, and Wi-Fi, contributing to the development of smart cities by enabling seamless communication across IoT devices.



Autonomous Vehicles and Smart Transportation

Ensures real-time communication for autonomous vehicles, fleet management, and smart transportation systems for efficient and safe operations.

Vigor2867be-5G (BE7200, 802.11be)

5G Multi-WAN router with dual Nano SIM and eSIM modules, 1 x GbE WAN port, 1 x 10GbE WAN/LAN port, 1 x VDSL2 port, 1 x 10Gb SFP+ Fibre LAN slot, 3 x GbE LAN ports, and 50 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2867be-5G router delivers the core features of the Vigor2867 series and includes an integrated 5G/4G LTE Nano SIM module, providing up to ten-times-faster speeds on 5G while maintaining full 4G LTE compatibility. The 5G/4G LTE feature makes the Vigor2867be-5G an ideal solution for applications such as:

- Remote locations with no fixed line or NBN/VDSL/UFB coverage
- Quick setup for new branches waiting for xDSL/Ethernet WAN (e.g. NBN deployment)
- Load Balancing or Failover backup for an existing primary internet connection such as VDSL or Cable/NBN/UFB Ethernet broadband
- Temporary installations such as disaster recovery, emergency, exhibitions and sporting events where internet access is required for a short period
- Provision of internet access on public transport such as coaches, buses, trains and freighters

The Vigor2867be-5G includes 1 x GbE WAN, 1 x VDSL2+ port, 1 x 10GbE WAN/LAN, 1 x 10Gb SFP+ LAN, 3 x GbE LAN ports, a dual Nano SIM card slot with failover support, alongside an eSIM option for 5G/4G LTE broadband connectivity. All connection types can be configured for use in Load Balance and Failover mode. Along with the 5G/4G LTE capability, these routers feature object-oriented SPI Firewalls, IPv6 support, 50 x IPsec/OpenVPN/WireGuard VPN tunnels, Tag-based VLANs, multiple subnets, and more.

Robust hardware acceleration improves NAT and IPsec performance without sacrificing important traffic control features such as QoS, bandwidth limit, WAN budget, traffic graph and data flow monitor.



More info

Specifications

- Built-in 5G/4G LTE modem (with dual Nano SIM card slot & eSIM)
- 1 x GbE WAN port
- 1 x VDSL2 35b WAN port
- 1 x 10GbE WAN/LAN port
- 1 x 10Gb SFP+ LAN port
- 3 x GbE LAN ports
- Object-oriented SPI Firewall
- Up to 60,000 NAT Sessions
- IPv6 & IPv4
- Rack-mountable
- High Availability (CARP) with hardware redundancy
- 50 x IPsec/OpenVPN/WireGuard VPN tunnels
- 802.11be (BE7200) Wi-Fi
- Zero-Wait DFS mode
- 1 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 10 Switches
- Works with VigorACS 3 management system

Vigor2767ax-4G (AX3000, 802.11ax)

4G LTE Dual WAN routers with dual Nano SIM and eSIM modules, 1 x configurable 2.5 GbE WAN/LAN port, VDSL2 modem, 4 x GbE LAN ports, and 16 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2767ax-4G router has most of the functions of the Vigor2767 series routers, with an additional integrated 4G LTE broadband Nano SIM module which supports speeds of up to 300 Mbps downstream and 50 Mbps upstream. The 4G LTE feature makes the Vigor2767ax-4G an ideal solution for applications such as:

- Remote locations with no fixed line or NBN/VDSL/UFB coverage
- Quick setup for new branches waiting for xDSL/Ethernet WAN (e.g. NBN deployment)
- Load Balancing or Failover backup for an existing primary internet connection such as ADSL/VDSL or Cable/NBN/UFB Ethernet broadband
- Temporary installations such as disaster recovery, emergency, exhibitions and sporting events where internet access is required for a short period
- Provision of internet access on public transport such as coaches, buses, trains and freighters

The Vigor2767ax-4G includes 1 x VDSL2+ WAN, 1 x 2.5 GbE WAN/LAN, 3 x GbE LAN ports, and a dual Nano SIM card slot with failover support, alongside an eSIM option for 4G LTE broadband connectivity. All connection types can be configured for use in Load Balance* and Failover mode. Along with the 4G LTE capability, these routers feature object-oriented SPI Firewalls, IPv6 support, 16 x IPsec/OpenVPN/WireGuard VPN tunnels, Tag-based VLANs, multiple subnets, and more.

Robust hardware acceleration improves NAT and IPsec performance without sacrificing important traffic control features such as QoS, bandwidth limit, WAN budget, traffic graph and data flow monitor.



More info

Specifications

- Dual WAN Load Balancing*
- Built-in 4G LTE modem (with dual Nano SIM card slot & eSIM)
- 1 x VDSL2 35b WAN port
- 1 x 2.5 GbE WAN/LAN port
- 3 x GbE LAN ports
- Object-oriented SPI Firewall
- Up to 50,000 NAT Sessions
- 802.11ax (AX3000) Wi-Fi
- IPv6 & IPv4
- 16 x IPsec/OpenVPN/WireGuard VPN tunnels
- 1 x USB ports for 4G LTE/5G mobile broadband access, USB printer and storage
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 5 Switches
- Works with VigorACS 3 management system

* Available from firmware v5.4.0

Vigor2928be-5G (BE7200, 802.11be)

5G Multi-WAN router with dual Nano SIM and eSIM modules, 1 x GbE WAN port, 1 x 10Gb SFP+ WAN slot, 1 x 10GbE WAN/LAN port, 1 x 10Gb SFP+ Fibre LAN slot, 3 x GbE LAN ports, and 50 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2928be-5G router has most of the functions of the Vigor2928 series routers, and includes an integrated 5G/4G LTE Nano SIM module, providing up to ten-times-faster speeds on 5G while maintaining full 4G LTE compatibility. The 5G/4G LTE feature makes the Vigor2928be-5G router ideal solutions for applications such as:

- Remote locations with no fixed line or NBN/UFB coverage
- Quick setup for new branches waiting for xDSL/Ethernet WAN (e.g. NBN deployment)
- Load Balancing or Failover backup for an existing primary internet connection such as Cable/NBN/UFB Ethernet broadband
- Temporary installations such as disaster recovery, emergency, exhibitions and sporting events where internet access is required for a short period
- Providing internet access on public transport such as coaches, buses, trains and freighters

The Vigor2928Be-5G includes 1 x GbE WAN, 1 x 10Gb SFP+ WAN, 1 x 10GbE WAN/LAN, 1 x 10Gb SFP+ LAN, 3 x GbE LAN ports, and a dual Nano SIM card slot with failover support, alongside an eSIM option for 5G/4G LTE broadband connectivity. The WAN ports support NBN technologies including FTTP, FTTC, HFC, Satellite and Fixed Wireless. All WAN interfaces, including the 4G USB WAN interfaces, can be configured to Load Balance mode or Failover mode.



More info

Specifications

- Built-in 5G/4G LTE modem (with dual Nano SIM card slot & eSIM)
- 1 x GbE WAN port
- 1 x 10Gb SFP+ WAN port
- 1 x 10GbE WAN/LAN port
- 1 x 10Gb SFP+ LAN port
- 3 x GbE LAN ports
- Object-oriented SPI Firewall
- Up to 60,000 NAT Sessions
- IPv6 & IPv4
- Rack-mountable
- 802.11be (BE7200) Wi-Fi
- Zero-Wait DFS mode
- 50 x IPsec/OpenVPN/WireGuard VPN tunnels
- Link Aggregation
- 1 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 10 Switches
- Works with VigorACS 3 management system

Vigor2136ax-4G (AX3000, 802.11ax)

4G LTE Dual WAN router with dual Nano SIM module, 1 x 2.5 GbE WAN port, 3 x GbE LAN ports, 1 x configurable 2.5 GbE WAN/LAN port, and 16 x IPsec/OpenVPN/WireGuard VPN tunnels

The Vigor2136ax-4G router has most of the functions of the Vigor2136 series routers, with an additional integrated 4G LTE mobile broadband Nano SIM module which supports speeds of up to 300 Mbps downstream and 50 Mbps upstream. The 4G LTE feature makes the Vigor2136ax-4G an ideal solution for applications such as:

- Remote locations with no fixed line or NBN/VDSL/UFB coverage
- Quick setup for new branches waiting for xDSL/Ethernet WAN (e.g. NBN deployment)
- Load Balancing or Failover backup for an existing primary internet connection such as ADSL/VDSL or Cable/NBN/UFB Ethernet broadband
- Temporary installations such as disaster recovery, emergency, exhibitions and sporting events where internet access is required for a short period
- Provision of internet access on public transport such as coaches, buses, trains and freighters

The Vigor2136 series includes 1 x 2.5GbE WAN, 1 x 2.5GbE WAN/LAN, and 3 x GbE LAN ports, and a dual Nano SIM card slot for 4G LTE broadband connectivity, allowing for a second Nano SIM to be installed for failover. All connection types can be configured for use in Load Balance* and Failover mode. Along with the 4G LTE capability, these routers feature object-oriented SPI Firewalls, IPv6 support, 16 x IPsec/OpenVPN/WireGuard VPN tunnels, Tag-based VLANs, multiple subnets, and more.

Robust hardware acceleration improves NAT and IPsec performance without sacrificing important traffic control features such as QoS, bandwidth limit, WAN budget, traffic graph and data flow monitor.



More info

Specifications

- Dual WAN Load Balancing*
- Built-in 4G LTE modem (with dual Nano SIM card slot)
- 1 x 2.5 GbE WAN port
- 1 x 2.5 GbE LAN/WAN port
- 3 x GbE LAN ports
- Object-based SPI Firewall
- Up to 50,000 NAT Sessions
- 802.11ax (AX3000) Wi-Fi
- IPv6 & IPv4
- 16 x IPsec/OpenVPN/WireGuard VPN tunnels
- 1 x USB 2.0 port for 4G USB modem, USB printer, storage and thermometer
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 5 Switches
- Works with VigorACS 3 management system

* Available from firmware v5.4.0

VigorC510 v2 Series

5G Single WAN routers with dual Nano SIM slot and eSIM, 1 x GbE WAN port, 1 x configurable GbE WAN/LAN port, 3 x GbE LAN ports and 16 x IPsec/OpenVPN/WireGuard VPN tunnels

The DrayTek VigorC510 Series are powerful single-WAN cellular routers designed for high-speed 5G and 4G LTE network applications. Whether for business or remote work, the VigorC510 series delivers ultra-fast speeds, robust security, and seamless connectivity in any environment.

Equipped with Gigabit Ethernet, a dual Nano SIM card slot with failover support, an eSIM option, and Wi-Fi 6 (AX3000) support, the C510 series ensures uninterrupted internet access with multi-WAN failover. Its advanced VPN capabilities allow secure remote access with support for IPsec, OpenVPN, and WireGuard. This router is built for high-performance applications, including VoIP, cloud services, and remote office deployments.

Designed with enterprise-grade firewall and content filtering, the VigorC510 series provides comprehensive security against cyber threats. The web-based UI features flexible management options including SSH and SNMP, making network administration effortless.

For businesses requiring fast, reliable, and secure connectivity, the DrayTek VigorC510 Series is the ideal networking solution.



More info

Models

VigorC510 v2

VigorC510ax v2

Specifications

- Built-in 4G LTE modem (with dual Nano SIM card slot and eSIM)
- 1 x GbE WAN port
- 1 x GbE LAN/WAN port
- 3 x GbE LAN ports
- Object-based SPI Firewall
- Up to 50,000 NAT Sessions
- 802.11ax (AX3000) Wi-Fi (ax model)
- IPv6 & IPv4
- 16 x IPsec/OpenVPN/WireGuard VPN tunnels
- Virtual AP Controller - up to 20 APs (1 root + 19 nodes)
- Virtual Switch Controller - up to 5 Switches
- Works with VigorACS 3 management system

Wireless LAN

Wi-Fi 7: The Future of Connectivity

The latest generation of DrayTek wireless routers now support the most recent Wi-Fi technology, which is 802.11be, also called Wi-Fi 7. This is the newest evolution of the Wi-Fi standard, designed to meet the demands of future applications like 4K/8K video streaming, augmented reality (AR), virtual reality (VR), and cloud computing. The goal of Wi-Fi 7 is to provide Extremely High Throughput (EHT), with nominal peak data rates exceeding 30 Gbps, which is more than four times faster than Wi-Fi 6.

DrayTek Wi-Fi 7 routers and access points are now available, providing data rates of up to 7200Mbps in the Vigor2867be and Vigor2928be router products.

Some key features of 802.11be include:

- **Higher Data Rates:** A substantial increase over Wi-Fi 6 (802.11ax).
- **Multi-Link Operation:** Allowing devices to simultaneously utilise both the 2.4GHz and 5GHz bands and channels, improving reliability and speed.
- **Improved Efficiency:** Enhanced Multi-User MIMO (Multi-User Multiple Input Multiple Output) capabilities allow more devices to connect and communicate simultaneously without degrading performance.
- **Support for Wider Channels:** It enables the use of 160 MHz channels and even 320 MHz channels, providing more bandwidth for high-demand applications.
- **Enhanced OFDMA:** Orthogonal Frequency Division Multiple Access (OFDMA) is improved, allowing for even better resource allocation among multiple users.
- **Lower Latency:** The reduced latency makes it ideal for real-time applications such as gaming and virtual reality.

Multi-Link Operation (MLO)

This capability improves overall network performance, reliability, and speed.

Key Points

- **Concurrent Connections:** MLO enables devices to use multiple frequency bands (such as 2.4 GHz, 5 GHz and 6 GHz) at the same time, allowing for seamless data transmission and improved bandwidth utilisation.
- **Increased Throughput:** By utilising multiple links, MLO can greatly enhance throughput, making it perfect for bandwidth-heavy applications such as 4K/8K streaming, online gaming, and virtual reality.
- **Redundancy and Reliability:** Multi-Link Operation offers redundancy. If one link experiences interference or problems, the device can keep communicating through other active links, improving overall network reliability.
- **Load Balancing:** MLO can distribute traffic across different links, preventing congestion on a single channel and ensuring a smoother experience for users.
- **Enhanced Performance in Dense Environments:** In crowded network environments, MLO helps maintain performance by intelligently managing connections and reducing interference.

Wireless LAN

Wi-Fi 7: The Future of Connectivity

Comparative Analysis of Standards: A Technical Overview

The following table consolidates key specifications to illustrate the generational leaps across the major Wi-Fi standards.

Wi-Fi Standard	IEEE Protocol	Frequency Bands	Maximum Data Rate (Theoretical)	Channel Width	Key Enhancements
Wi-Fi 5	802.11ac	5 GHz	3.5 Gbps	20, 40, 80 160 MHz	MU-MIMO (Downlink), 256-QAM
Wi-Fi 6	802.11ax	2.4 GHz, 5 GHz	9.6 Gbps	20, 40, 80 160 MHz	OFDMA, 1024-QAM, BSS Color, TWT
Wi-Fi 6E	802.11ax	2.4 GHz, 5 GHz, 6 GHz	9.6 Gbps	20, 40, 80 160 MHz	Adds 6 GHz Band
Wi-Fi 7	802.11be	2.4 GHz, 5 GHz, 6 GHz	46 Gbps	20, 40, 80 160. 320 MHz	MLO, Multi-RU, 4096-QAM, Preamble Puncturing

Zero-Wait DFS (Dynamic Frequency Selection)

This feature is available in DrayTek Wi-Fi 7 routers. It is used to enhance performance and minimise interference when operating in the 5 GHz band. Unlike traditional DFS mechanisms that require a waiting period after detecting radar signals before resuming transmission, Zero-Wait DFS allows devices to switch channels swiftly without the usual delay.

Beneficial in environments where radar devices, such as weather radars and military systems, may be present. By instantly selecting a different channel upon detecting radar activity, Zero-Wait DFS helps maintain network connectivity and performance without the interruptions that traditional DFS might cause.

Key Benefits

- **Reduced Downtime:** Immediate channel switching means less interruption in service, improving overall user experience.
- **Better Performance:** More efficient use of available channels, leading to potentially higher throughput and lower latency.
- **Enhanced User Experience:** Particularly for devices in high-density environments or where consistent connectivity is crucial, the ability to switch channels quickly helps support applications that require stable connections.

Overall, Zero-Wait DFS is a significant advancement in wireless communication technologies, aiding in optimising network performance while adhering to regulatory requirements related to radar frequency use.

Wireless LAN

Wi-Fi 7: The Future of Connectivity

Roaming for 802.11r, 802.11v, and 802.11k

These are a set of features available in DrayTek Wi-Fi 7 routers and access points designed to improve the performance and experience of wireless networks, especially for mobile devices that move between access points (APs).

Key Benefits

- **802.11r (Fast BSS Transition):** This enhances the handover process between access points, reducing the time needed for a device to switch from one AP to another. This is crucial for applications like voice over Wi-Fi or video streaming, where interruptions during the transition can lead to a poor user experience. With 802.11r, devices can pre-authenticate to the next AP, allowing for a seamless transition.
- **802.11v (Wireless Network Management):** This helps optimise the management of devices connected to the network. It provides information about network conditions and can guide devices to the best AP to connect to, helping to manage load and ensure better performance. It can also assist in directing devices to minimise interference and enhance overall network efficiency.
- **802.11k (Radio Resource Management):** This focuses on gathering and sharing information about the radio environment. It allows devices to make more informed decisions about roaming by providing them with details on signal strength and the best available channels. This helps devices select the optimal AP to connect to, improving the overall user experience.

Wi-Fi 7 Applications

Typical Wi-Fi 7 applications utilise its advanced features and high data rates to deliver enhanced performance in various areas. These applications highlight the versatility and potential of Wi-Fi 7 in meeting the growing demands for connectivity across different sectors.

- **4K/8K Video Streaming:** With its extremely high throughput, Wi-Fi 7 enables high-definition video streaming without buffering, making it ideal for services like Netflix and YouTube.
- **Virtual Reality (VR) and Augmented Reality (AR):** The low latency and high data rates of Wi-Fi 7 support immersive experiences in gaming and applications that require real-time interaction.
- **Cloud Computing:** Wi-Fi 7 allows seamless access to cloud-based applications and services, enabling quick data uploads and downloads.
- **Online Gaming:** The reduced latency offered by Wi-Fi 7 improves the gaming experience by enabling faster response times and reducing lag.
- **Smart Homes and IoT Devices:** The improved efficiency and capacity to connect more devices simultaneously make Wi-Fi 7 suitable for smart home applications relying on multiple IoT devices.
- **High-Density Environments:** Wi-Fi 7 supports connectivity in places like stadiums, conference centres, and public venues, where many users are online at the same time.
- **Telecommuting and Remote Work:** With the growing trend of remote working, Wi-Fi 7 can support multiple devices and high-bandwidth applications like video conferencing.

VigorAP 1070C

High Performance Tri-Band 802.11be (BE19000) Ceiling Access Point for High Density Environments with 1 x 10 Gigabit PoE PD LAN port, 2.5 GbE LAN port, and Mesh Wi-Fi

The VigorAP 1070C is a high-performance BE19000 Tri-Band Wi-Fi Access Point that delivers speeds up to 1376 Mbps on 2.4GHz, 5765 Mbps on 5GHz, and 11530 Mbps on 6GHz. Featuring 2.5 GbE and 10 GbE ports alongside MU-MIMO technology, it supports up to 512 concurrent clients. This makes it the ideal choice for high-density environments, such as classrooms and conference centres, where robust connectivity is essential.

The Plug-n-Play Mesh technology in the VigorAP 1070C supports up to eight Access Points to be wirelessly interconnected as a Mesh group to provide extended wireless coverage. This can be quickly and easily set up using the built-in Quick Start Wizard or with the free Smartphone app available from DrayTek.

The Wi-Fi Mesh technology found in the VigorAP 1070C will improve the reliability of any network. Redundancy features ensure an alternative path is available in the event of an uplink connection failure, ensuring continuity of Wi-Fi services.

The VigorAP 1070C also offers AP mode where it can function as a stand-alone wireless access point, and Repeater mode where it can function as a wireless repeater and an access point at the same time.

The VigorAP 1070C can function as the Root AP to scan and auto-provision settings to other node APs within the same LAN subnet. It is capable of managing up to 50 Vigor access points.



More info

Specifications

- Tri-Band 802.11be (BE19000) Wi-Fi
 - 6 GHz: 11530 Mbps
 - 5 GHz: 5765 Mbps
 - 2.4GHz: 1376 Mbps
- Support up to 512 wireless clients all band
- Wi-Fi Mesh technology
- Support up to 8 x SSID per Radio
- Air Time Fairness
- Band Steering
- Roaming
- AP Discovery
- 1 x 10G PoE 802.3bt PD LAN port
- 1 x 2.5GbE LAN port
- 1 x USB 2.0 port
- SSID VLAN Grouping with LAN port
- 802.1x authentication
- Ceiling mountable
- Built in AP Management supports up to 50 Vigor APs
- Compatible with Central AP Management/ VigorACS 3 / VigorConnect

VigorAP 905

Dual Band 802.11ax (AX3000) Access Point with Mesh Wi-Fi, 4 x GbE ports, 1 x 2.5GbE PoE PD port, 1 x USB 3.0 port, and Dual-LAN segments

The DrayTek VigorAP 905 is a dual-band 802.11ax wireless Access Point suitable for high density environments such as in classrooms, conferences or wherever a large number of concurrent Wi-Fi connections need to be supported.

2x3 MU-MIMO and Beamforming features provide excellent Wi-Fi connectivity with a maximum of 3 Gbps aggregated link data rate. The Plug-n-Play Mesh technology in the VigorAP 905 supports up to eight Access Points to be wirelessly interconnected as a Mesh group to provide extended wireless coverage. This can be quickly and easily set up using the built-in Quick Start Wizard or with the free Smartphone app available from DrayTek.

The Wi-Fi Mesh technology found in the VigorAP 905 will improve the reliability of any network. Redundancy features ensure an alternative path is available in the event of an uplink connection failure, ensuring continuity of Wi-Fi services.

The VigorAP 905 features the latest 802.11ax Wi-Fi technology with a combined throughput of 3000 Mbps (2400 Mbps for the 5 GHz band and 600 Mbps for the 2.4 GHz band).

VigorAP 905 can function as the Root AP to scan and auto-provision settings to other node APs within the same LAN subnet. It is capable of managing up to 20 Vigor access points.

The 5 LAN ports can be divided into two segments (4 LAN ports in segment A and 1 in segment B).

Specifications

- 1 x 2.5GbE PoE PD port
- 4 x Gigabit LAN ports
- 2 x LAN segments
- Wi-Fi Mesh technology
- 2x detachable Dual-Band Antennas
- Dual-band 802.11ax with 2x3 MU-MIMO
- Wi-Fi speeds up to 2400 Mbps for 5 GHz band and 600 Mbps for 2.4 GHz band
- 16 x SSID (8 per radio band) with unique VLAN setting
- 256 Max. Concurrent Active Users (128 per band)
- Wireless distribution system (WDS)
- Air Time Fairness
- AP-assisted Roaming
- Band Steering
- Plug-n-Play Meshing
- Compatible with Central AP Management/ VigorACS 3 / VigorConnect



More info

VigorAP 805

Dual Band 802.11ax (AX3000) Access Point with Mesh Wi-Fi, 1 x GbE port, and 1 x 2.5GbE port

Experience seamless, high-speed connectivity with the DrayTek VigorAP 805, a dual-band Wi-Fi 6 access point designed for superior performance and efficiency. Offering AX3000 speeds with 600Mbps on 2.4GHz and 2400Mbps on 5GHz, this sleek, desktop-friendly AP supports up to 256 concurrent clients, making it ideal for high-density environments.

With Wi-Fi Mesh support and an intuitive physical Mesh button, setting up a reliable, self-healing wireless network has never been easier. Advanced roaming protocols (802.11r/k/v) ensure smooth transitions between APs, eliminating dropped connections and solving sticky client issues for uninterrupted performance.

Built with dual LAN ports (1G & 2.5G Ethernet) for high-speed wired backhaul, the VigorAP 805 integrates effortlessly into business and home networks. Centralised management is available via VigorACS, VigorConnect, or the DrayTek Wireless App, offering zero-touch deployment, monitoring, and remote maintenance.

Featuring band steering, airtime fairness, and security-focused MAC filtering, the VigorAP 805 is the perfect solution for businesses and homes seeking fast, efficient, and easily managed Wi-Fi.

Specifications

- 1 x 2.5GbE port
- 1 x Gigabit LAN port
- Wi-Fi Mesh technology
- 5 x PiFA internal antennas (2x 2.4G + 3x 5G)
- Dual-band 802.11ax with 2x3 MU-MIMO
- Wi-Fi speeds up to 2400 Mbps for 5 GHz band and 600 Mbps for 2.4 GHz band
- 16 x SSID (8 per radio band) with unique VLAN setting
- 256 Max. Concurrent Active Users (128 per band)
- Air Time Fairness
- AP-assisted Roaming
- Band Steering
- Plug-n-Play Meshing
- Built-in RADIUS server for 802.1x authentication
- Compatible with Central AP Management/ VigorACS 3 / VigorConnect



More info



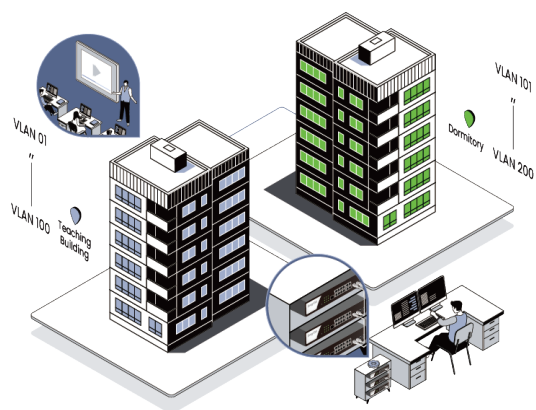
DrayTek VigorSwitch Solutions

Advanced Architecture, Stacking, and SDN Capabilities

Long established as a premier networking provider for SMBs and enterprise branches, DrayTek offers the VigorSwitch line as a robust LAN backbone designed to complement its renowned routers. Ranging from Web-Smart to fully Managed Layer 2+ devices, these switches deliver the performance, security, and centralised manageability necessary to handle modern networking challenges, including IoT proliferation, high-bandwidth Wi-Fi 6/7 demands, and seamless ONVIF surveillance integration.

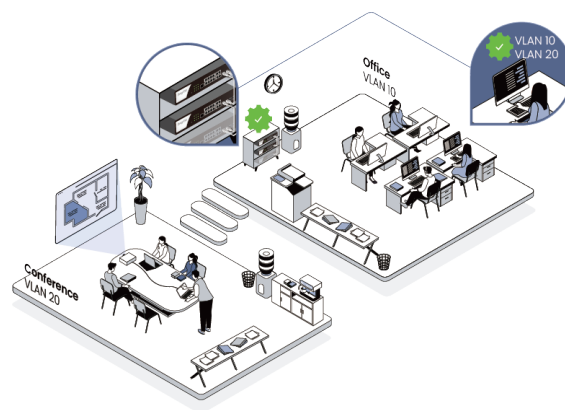
DrayTek's Switch Stacking technology integrates multiple VigorSwitch units into a single logical system, enabling centralised management, synchronised configuration, and 10 GbE SFP+ high-speed interconnection. Through a single IP interface, administrators can configure, monitor, and update all stacked switches, simplifying operations while ensuring scalability, reliability, and continuity for enterprise and campus environments.

Application Scenarios



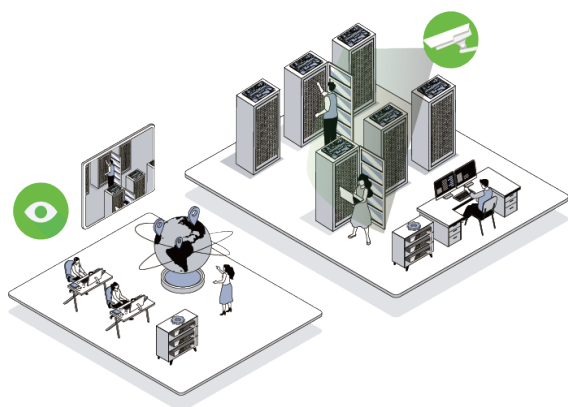
Campus Networks

- Single IP for entire stack
- Unified VLAN/QoS deployment
- Automatic master failover for uninterrupted connectivity



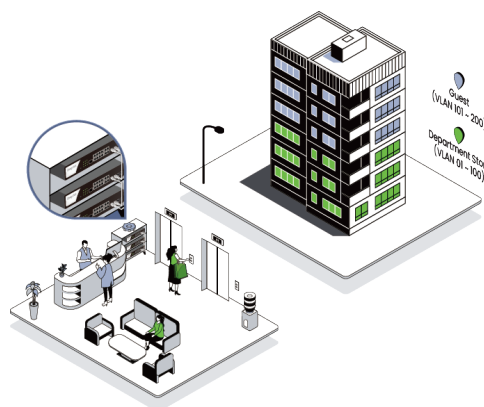
SMB & Branch Offices

- Seamless expansion
- Centralised firmware/config sync
- Investment protection and simplified maintenance



Surveillance Networks

- Mixed-model stacking (PoE + non-PoE)
- Centralised QoS for streaming priority
- ONVIF auto-detection for IP cameras



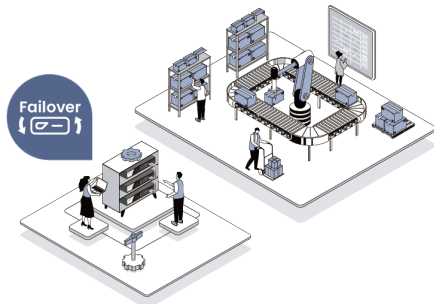
Hospitality & Multi-Tenant Buildings

- VLAN segmentation by zone
- Unified stack across entire building
- Stable connectivity and simplified control

DrayTek VigorSwitch Solutions

Advanced Architecture, Stacking, and SDN Capabilities

Application Scenarios



Industrial & IoT Environments

- Dual 10Gb SFP+ ring topology
- Unified monitoring of IoT endpoints
- Predictable latency and uptime

OpenFlow VigorSwitch

For Managed Service Providers (MSPs), ISPs, and research institutions requiring granular control over packet flow beyond traditional Layer 2/3 switching, DrayTek offers support for OpenFlow 1.3. This feature bridges the gap between traditional networking and Software-Defined Networking (SDN).

SDN for Scale Agility

As Software-Defined Networking (SDN) core overlay infrastructure matures, an increasing number of service providers are prioritising the extension of SDN-enabled services directly to the customer premises.

Enterprises consistently demand expanded service portfolios and increased bandwidth at more competitive price points. By leveraging core SDN capabilities, specifically policy-based control and automated provisioning, service providers can enhance operational agility and responsiveness while maintaining a lean cost structure.

DrayTek OpenFlow Switch Aiming for SMB Deployment at a Fraction of the Cost

DrayTek OpenFlow switch supports operating under standard mode (as a traditional layer 2 bridge switch) and SDN mode (supporting OpenFlow 1.3). With this flexibility, service providers can keep support and inventory simple, and easily change between modes upon installations.

Centralised Management/Maintenance

All VigorSwitch models support the TR-069 protocol, enabling seamless integration with the DrayTek VigorACS 3 cloud-based management platform. This centralised system provides versatile operational benefits:

- SDN Mode: In this mode, VigorACS 3 facilitates cost-effective remote maintenance through automated monitoring and streamlined management.
- Legacy Mode: When operating in traditional environments, the platform continues to provide comprehensive configuration management, ensuring consistent network control regardless of the deployment architecture.

Conclusion

DrayTek's evolution in the switching market demonstrates a commitment to both reliability and innovation. By combining the physical robustness of Switch Stacking with the logical flexibility of OpenFlow, DrayTek provides a comprehensive portfolio. Whether the goal is to build a highly available corporate network with zero-touch redundancy or to deploy a cutting-edge programmable network for an ISP, the VigorSwitch series offers the hardware capability and software intelligence to meet the demand.

VigorSwitch PX2060

PoE++ (140W) Layer 2+ Managed Switch with 2 x 10G SFP+ slots, 4 x 10GbE PoE++ ports, and external AC power adaptor

The VigorSwitch PX2060 is a Layer 2+ Managed Power over Ethernet switch with 2 x 10GbE SFP+ slots for connection of optic fibre modules or DAC cables, and 4 x 10GbE with PoE++ PSE ports.

With a total power budget of 140 Watts, the four 802.3bt PoE++ ports provide up to 60 Watts per port making it suitable to power devices such as point of sale equipment, LED lighting, digital signage and high-power wireless Access Points.

The VigorSwitch PX2060 is also backwards compatible with the 802.3at and 802.3af PoE standards which support devices that require up to 30 Watts of power per port. This is useful in networks where power is required for devices such as wireless Access Points, IP phones, and IP cameras, removing the need for power cables and adapters.

Specifications

- 140W PoE Power Budget
- 2 x 10GbE SFP+ slots
- 4 x 10GbE PoE++ ports (up to 60 Watts per port)
- 160 Gbps switching capacity
- ONVIF-Friendly
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



More info

VigorSwitch X2060

Layer 2+ Managed Switch with 2 x 10GbE SFP+ slots, and 4 x 10GbE ports

The VigorSwitch X2060 is a Layer 2+ Managed switch with 4 x 10GbE RJ-45 ports and 2 x 10 Gigabit SFP+ slots for optic fibre modules or DAC cables. It supports many network functions, including QoS, Port Mirroring, VLAN network security, Spanning Tree protocol, SNMP and Central Switch Management, allowing it to integrate seamlessly with DrayTek routers.

Specifications

- 4 x 10GbE ports
- 2 x 10GbE SFP+ slots
- 160 Gbps switching capacity
- ONVIF-Friendly
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



More info

VigorSwitch PQ2300xb

PoE++ (400W) L2+ Managed Switch with 6 x 10G SFP+ slots,
8 x 2.5GbE PoE++ ports & 16 x 2.5GbE PoE+ ports and 1 x Console port

The VigorSwitch PQ2300xb is a Layer 2+ Managed Power over Ethernet switch with 6 x 10GbE SFP+ slots for connection of optic fibre modules or DAC cables. In addition, it has 8 x 2.5GbE ports with PoE++ PSE, 16 x 2.5GbE ports with PoE+ PSE and 1 x Console port.

With a total power budget of 400 Watts, the eight 802.3bt PoE++ ports provide up to 90 watts per port making it suitable to power devices such as point of sale equipment, LED lighting, digital signage and high-power wireless Access Points.

Each of the remaining 2.5 Gigabit Ethernet ports of VigorSwitch PQ2300xb supports the 802.3at and 802.3af PoE standards providing up to 30 Watts of power per port. This is useful in networks where power is required for devices such as wireless Access Points, IP phones, and IP cameras, removing the need for power cables and adapters.

Specifications

- 400W PoE Power Budget
- 6 x 10GbE SFP+ slots
- 8 x 2.5 Gigabit Ethernet PoE++ ports (up to 90 Watts per port)
- 16 x 2.5 Gigabit Ethernet PoE+ ports (up to 30 Watts per port)
- 1 x RJ-45 console port
- 240 Gbps switching capacity
- ONVIF-Friendly
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- 8 Link Aggregation Groups (LACP) with up to 8 Ports for each group
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



More info

VigorSwitch Q2300x

L2+ Managed Switch with 6 x 10GbE SFP+ slots, 24 x 2.5GbE ports and 1 x Console port

The VigorSwitch Q2300x is a Layer 2+ Managed switch with 24 x 10/100/1000/2500 Mbps Gigabit Ethernet RJ-45 ports and six 10 Gigabit SFP+ ports for optic fibre modules or DAC cables.

Specifications

- 24 x 2.5 Gigabit Ethernet ports
- 6 x 10GbE SFP+ slots
- 1 x RJ-45 console port
- 240 Gbps switching capacity
- ONVIF-Friendly
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- 8 x Link Aggregation Groups (LACP) with up to 8 Ports for each group
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



More info

VigorSwitch PQ2121x

PoE+ (140W) L2+ Managed 2.5GbE Switch with 4 x 10GbE SFP+ slots, 8 x 2.5GbE PoE+ ports, and 1 x Console port

The VigorSwitch PQ2121x is a Layer 2+ Managed switch with 8 x 2.5GbE PoE RJ-45 ports, and 4 x 10G SFP+ Ports for connection of optic fibre modules or DAC cables.

Each of the 8 Gigabit Ethernet ports of the VigorSwitch PQ2121x support the 802.3at and 802.3af PoE standards providing up to 30W per port for a total power budget of 140 watts.



More info

Specifications

- 8 x 2.5 Gigabit Ethernet ports
- 4 x 10GbE SFP+ slots
- 140 Watt Power Budget
- 120 Gbps switching capacity
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- ONVIF-Friendly
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- Link Aggregation Groups (LACP)
- Compatible with Central AP Management / VigorACS 3 / VigorConnect

VigorSwitch Q2121x

L2+ Managed Switch with 4 x 10GbE SFP+ slots, 8 x 2.5GbE ports, and 1 x Console port

The VigorSwitch Q2121x is a Layer 2+ Managed switch with 8 x 10/100/1000/2500 Mbps Gigabit Ethernet RJ-45 ports and four 10 Gigabit SFP+ ports for optic fibre modules or DAC cables.



More info

Specifications

- 8 x 2.5 Gigabit Ethernet ports
- 4 x 10GbE SFP+ slots
- 120 Gbps switching capacity
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- ONVIF-Friendly
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- Link Aggregation Groups (LACP)
- Compatible with Central AP Management / VigorACS 3 / VigorConnect

VigorSwitch PQ1070x

PoE+ (75W) Smart Lite Managed Switch with 2 x 10GbE SFP+ slots, and 5 x 2.5GbE PoE+ ports

The VigorSwitch PQ1070x is a Smart Lite Managed switch with 5 x 2.5GbE PoE RJ-45 ports, and 2 x 10G SFP+ Ports for connection of optic fibre modules or DAC cables.

Each of the 5 Gigabit Ethernet ports of the VigorSwitch PQ1070x support the 802.3at and 802.3af PoE standards providing up to 30W per port for a total power budget of 75 watts.



More info

Specifications

- 5 x 2.5 Gigabit Ethernet ports
- 2 x 10GbE SFP+ slots
- 75 Watt Power Budget
- 65 Gbps switching capacity
- 802.1q tagged VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant

VigorSwitch Q1070x

Smart Lite Managed Switch with 2 x 10GbE SFP+ slots, and 5 x 2.5GbE ports

The VigorSwitch Q1070x is a Smart Lite Managed switch with 5 x 2.5GbE RJ-45 ports and 2 x 10 Gigabit SFP+ ports for optic fibre modules or DAC cables.



More info

Specifications

- 5 x 2.5 Gigabit Ethernet ports
- 2 x 10GbE SFP+ slots
- 65 Gbps switching capacity
- 802.1q tagged VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant

VigorSwitch Q60x

Unmanaged Switch with 5 x 2.5GbE ports and 1 x 10GbE SFP+ slot

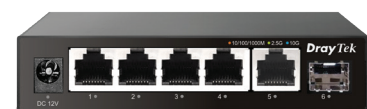
The VigorSwitch Q60x is a unmanaged switch with 5 x 10/100/1000/2500 Mbps Gigabit Ethernet RJ-45 ports and one 10 Gigabit SFP+ ports for optic fibre modules or DAC cables.

Specifications

- 5 x 2.5 Gigabit Ethernet ports
- 1 x 10GbE SFP+ slots
- 1xx Gbps switching capacity



More info



VigorSwitch P2542x/xh

PoE+ (400W) L2 Managed Switch with 6 x SFP+ ports, 48 x GbE PoE ports, and 1 x Console port

The VigorSwitch P2542x is a Layer 2+ Managed PoE switch with 48 x 10/100/1000 Mbps Gigabit Ethernet RJ-45 ports, and 6 x SFP+ Ports for 10 Gbps optic fibre modules or DAC cables.

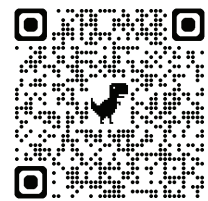
Each of the 48 Gigabit Ethernet ports of the VigorSwitch P2542x support the 802.3at and 802.3af PoE standards providing up to 30W per port. This is useful in networks where power is required for devices such as wireless Access Points, IP phones and IP cameras, removing the need for power cables and adapters.

Specifications

- 48 x Gigabit Ethernet ports
- 6 x 10GbE SFP+ slots
- 1 x RJ-45 Console Port
- 216 Gbps switching capacity
- 400W Power Budget - P2542x
- 680W Power Budget - P2542xh
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- Switch stacking (up to 4 switches)
- ONVIF-Friendly
- IEEE 802.3az (Energy-Efficient Ethernet) Compliant
- 8 Link Aggregation Groups (LACP) with up to 8 Ports for each group
- Dual power supply (AC input and DC input for redundancy)
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



VigorSwitch P2542x



VigorSwitch P2542xh

VigorSwitch G2542x

L2+ Managed Switch with 6 x SFP+ slots, 48 x GbE ports, and 1 x Console port

The VigorSwitch G2542x is a Layer 2+ Managed switch with 48 x 10/100/1000 Mbps Gigabit Ethernet RJ-45 ports, and 6 x SFP+ Ports for installation of 10 Gbs optic fibre modules or DAC cables.

Specifications

- 48 x Gigabit Ethernet ports
- 6 x 10GbE SFP+ slots
- 1 x RJ-45 Console Port
- 216 Gbps switching capacity
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- ONVIF-Friendly
- Auto Voice VLAN and Auto Surveillance VLAN
- Switch stacking (up to 4 switches)
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- 8 Link Aggregation Groups (LACP) with up to 8 Ports for each group
- Dual power supply (AC input and DC input for redundancy)
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



More info

VigorSwitch P2282x

PoE+ (400W) L2+ Managed Switch with 4 x 10GbE SFP+ slots, 24 x GbE PoE ports, and 1 x Console port

The VigorSwitch P2282x is a Layer 2+ Managed switch with 24 x 10/100/1000 Mbps PoE Gigabit Ethernet RJ-45 ports, and four 10GbE SFP+ Ports for connection of optic fibre modules or DAC cables.

Each of the 24 Gigabit Ethernet ports of VigorSwitch P2282x support the 802.3at and 802.3af PoE standards, providing up to 30W per port. This is useful in networks where power is required for devices such as wireless Access Points, IP phones, and IP cameras, removing the need for power cables and adapters.

Specifications

- 24 x Gigabit Ethernet ports
- 4 x 10GbE SFP+ slots
- 1 x RJ-45 console port
- 400W Power Budget
- 128 Gbps switching capacity
- Switch stacking (up to 4 switches)
- ONVIF-Friendly
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- 8 Link Aggregation Groups (LACP) with up to 8 Ports for each group
- Compatible with Central AP Management / VigorACS 3 / VigorConnect
- Dual power supply (AC input and DC input for redundancy)



More info

VigorSwitch G2282x

L2+ Managed Switch with 4 x 10GbE SFP+ slots, 24 x GbE ports, and 1 x Console port

The VigorSwitch G2282x is a Layer 2+ Managed switch with 24 x 10/100/1000 Mbps Gigabit Ethernet RJ-45 ports and four 10GbE SFP+ ports for optic fibre modules or DAC cables.

Specifications

- 24 x Gigabit Ethernet ports
- 4 x 10GbE SFP+ slots
- 1 x RJ-45 console port
- 128 Gbps switching capacity
- Switch stacking (up to 4 switches)
- ONVIF-Friendly
- 802.1q tagged VLAN
- 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Auto Voice VLAN and Auto Surveillance VLAN
- IEEE 802.3az (Energy-Efficient Ethernet) compliant
- 8 Link Aggregation Groups (LACP) with up to 8 Ports for each group
- Compatible with Central AP Management / VigorACS 3 / VigorConnect
- Dual power supply (AC input and DC input for redundancy)



More info

VigorSwitch P1282

PoE+ (400W) Web Smart Managed Switch with 4 x SFP/GbE Combo ports and 24 x GbE PoE ports

The VigorSwitch P1282 is a Web Smart Managed switch with 24 x Gigabit Ethernet PoE ports and 4 x SFP/GbE Combo ports for optic fibre modules or DAC cables.

Each of the 24 Gigabit Ethernet ports of VigorSwitch P1282 support the 802.3at and 802.3af PoE standards, providing up to 30W per port. This is useful in networks where power is required for devices such as wireless Access Points, IP phones, and IP cameras, removing the need for power cables and adapters.

The VigorSwitch P1282 integrates with many network functions found in DrayTek routers, including QoS, Port Mirroring, VLAN network security, Spanning Tree protocol and SNMP. This switch is fully compliant with IEEE 802.3az energy efficient Ethernet protocol, and can be managed by DrayTek routers that support Central Switch Management. The Voice VLAN feature automatically identifies VoIP traffic and assigns it to a separate VLAN to provide the best possible call quality.



Specifications

- 400W Power Budget
- 24 x Gigabit PoE ports
- 4 x GbE/SFP combo ports
- 56 Gbps switching capacity
- IPv6 & IPv4
- Port/Tag-based VLAN
- ONVIF-Friendly
- Port Mirroring
- 802.3at PoE+
- 802.1x features
- Quality of Service
- Rack-mountable
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



More info

VigorSwitch G1282

Web Smart Managed Switch with 4 x SFP/GbE Combo ports and 24 x GbE ports

The VigorSwitch G1282 is a Web Smart Managed switch with 24 x 10/100/1000Base-T Ethernet ports and 4 x RJ45/SFP combo ports. It supports many network functions, including QoS, Port Mirroring, VLAN network security, Spanning Tree protocol, SNMP and Central Switch Management, allowing it to integrate seamlessly with DrayTek routers.

Specifications

- 24 x Gigabit ports
- 4 x GbE/SFP combo ports
- 56 Gbps switching capacity
- IPv6 & IPv4
- Port/Tag-based VLAN
- ONVIF-Friendly
- Port Mirroring
- 802.1x features
- Quality of Service
- Rack-mountable
- Compatible with Central AP Management / VigorACS 3 / VigorConnect



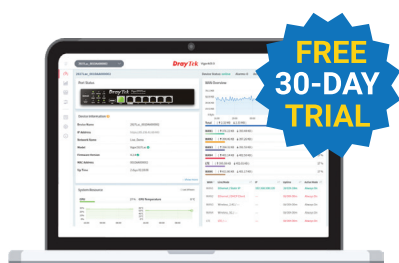
More info



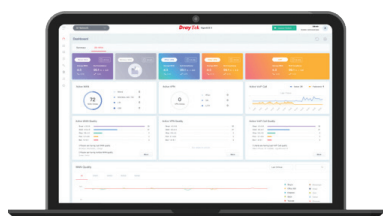
VigorACS 3

Advanced Centralised Management System with SD-WAN Features for Network Administrators

VigorACS 3 provides an integrated platform for network administrators to configure, provision and monitor DrayTek devices. DrayTek routers, access points and switches can be remotely managed from the comfort of offices or homes. Features include:



VigorACS 3



VigorACS 3 - SD WAN

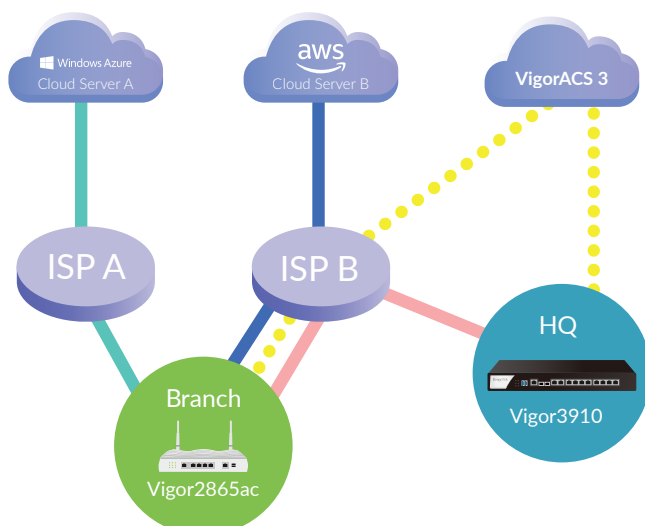
- SD-WAN solution providing remote network management of Vigor routers, Vigor Access Points and VigorSwitches
- SD-WAN features include:
 - Auto VPN (Hub-and-Spoke as well as Full Mesh)
 - Auto VoIP WAN
 - Traffic Control with SD-WAN Route Policy
 - Application Route Policy
- Centralised HotSpot Portal to handle hotspot login process for LAN Clients with multi-language support and advanced analytics
- Real-time status monitoring
- Automatic remote service provisioning for DrayTek's Vigor devices
- Scheduled firmware upgrades
- Device performance reporting and system logging
- Drag and drop VPN configuration wizard
- Flexible and secure CPE grouping
- Scheduled back-up and restore of configuration data
- TR-069 compliant
- Responsive Web Design (RWD) enables viewing on various screen sizes

Benefits of VigorACS 3

- Time and cost savings for businesses/organisations
- More reliable and secure networks
- Less travelling for network administrators
- Network alarm and reports for better management decisions
- Customer satisfaction
- Extra income source for IT service providers

SD-WAN Features

VigorACS 3 is the core of the DrayTek SD-WAN solution offering the following functions:



1. Monitor Internet-based applications (VoIP, video conferencing, media streaming, web browsing, etc.), displaying usage and performance data (latency, loss, jitter, Mean Opinion Score (MOS) given by the users, call history, etc.).
2. Network administrators can set SD-WAN policies to ensure traffic for the selected applications (e.g., VoIP) are routed through the best quality interfaces.
3. VigorACS 3 complements the MPLS protocol for HQ-branch traffic, and provides flexibility for SaaS and cloud-based applications.

Interface Quality at a Glance

Interface MOS

All interfaces are monitored 24/7 and an “Average” MOS (Mean Opinion Score) is calculated so Network Administrators can view the stability and quality of the WAN over the previous 24 hours.

“Active” WAN Quality shows the current interface quality.

MOS Compliancy

Shows the reliability of WAN connections as a percentage. (Should always be higher than the target MOS threshold).

For each Interface on a CPE, data usage, latency, jitter and packet loss are recorded to track WAN quality.

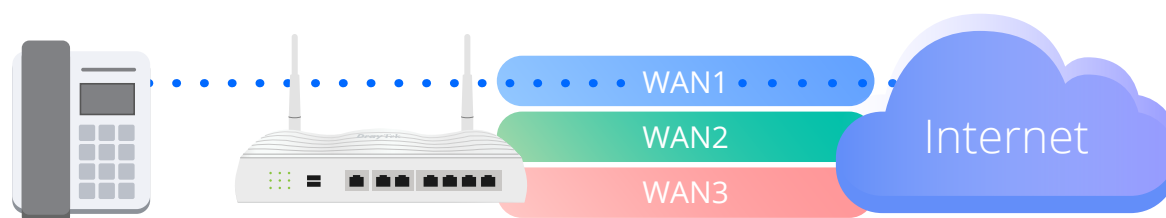
Intelligent VoIP Optimisation

From the start of each VoIP call to the end, SD-WAN provides intelligent VoIP optimisation.

WAN1 : mos 4.3 ● VoIP WAN

WAN2 : mos 4.0 ●

WAN3 : mos 3.6 ●



Auto VoIP WAN

SD-WAN intelligently assigns the best-quality WAN for VoIP traffic. Whenever a new call is made, SD-WAN makes sure it is going out over the best WAN available.

VoIP Live Failover

SD-WAN keeps monitoring each live call, and will failover to the secondary VoIP WAN if poor call quality is detected. Every call is logged with a Mean Opinion Score along with the Interface used.

Full Traffic Control with SD-WAN Route Policy

Application/Domain Route Policy

SD-WAN provides complete routing control by allowing Network Admins to specify the desired route for selected applications/domains to make sure the specific routing scenarios can be accomplished.

Failover/Failback

Failover to another interface when the original interface is offline, and failback when possible.

Application Visibility and SD-WAN Policy

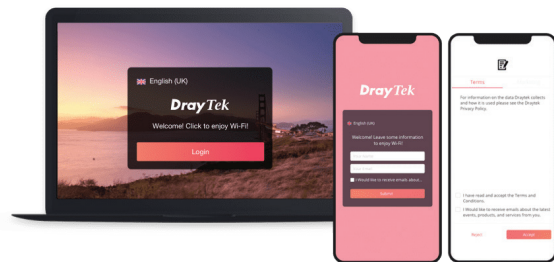
The application visibility lets Network Administrators understand the data usage. From every single client, via which WAN, to which application, at what time.

Based on the application visibility, Network Administrators can create SD-WAN policies to send business-critical applications through the best quality interface to optimise the user experience.



Robust Splash Page with Multilingual Support

Intuitively customise the splash page to meet business owners' needs. Live preview provides a "what you see is what you get" experience of splash page editing. Supporting 20 different languages, restaurant/hospitality business owners can speak their customers' language.

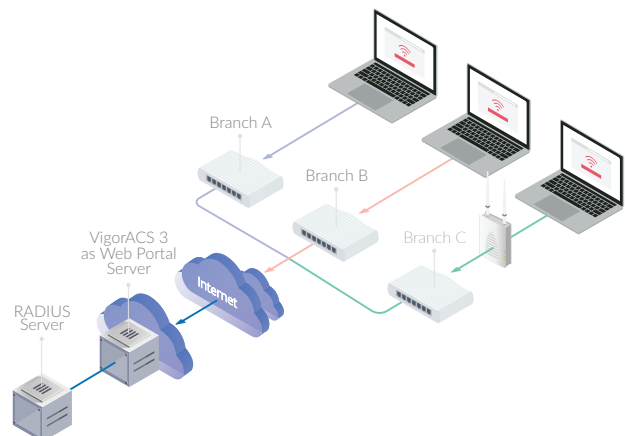


Terms and conditions, and marketing terms are also available, with the option that users must click checkboxes to get Internet access. Bandwidth limit, time quota, and device management can also be applied to client devices.

Client Management with Captive Portal

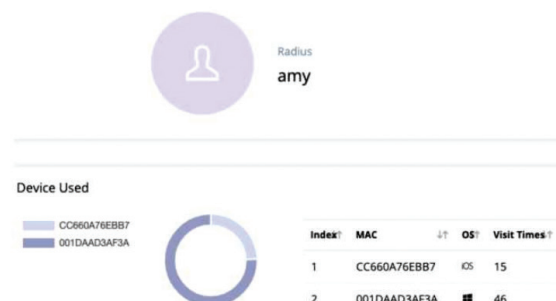
VigorACS 3 as Captive Portal Server

Many of the Vigor Router and VigorAP models support captive portal functions which redirect LAN clients to VigorACS 3 to go through the hotspot login process. This function is ideal for retail and hospitality businesses to allow Wi-Fi marketing and to learn more about their clients for future marketing campaigns.



Hotspot Clients Analytics

In addition to the splash page, VigorACS 3 provides a detailed analytics view where business owners can develop an in-depth understanding of new and return customers, their visiting frequency, which branches have been visited, and so on. Further marketing campaigns can then be designed accordingly.



Auto Provisioning

VigorACS 3 allows CPEs that are installed in remote networks to receive pre-configured data such as IP, PPPoE and VoIP parameters from the ACS server.

Network administrators can schedule provisioning of new profiles, firmware upgrades or backup/restore configurations for selected CPEs at specific times. Operations such as configuring VPN connections, VoIP settings and uploading new profiles can be scheduled to take place at the same time and in the same way as required.

Provisioning can be carried out per network group (Global Parameters), or per device (CPE Set Parameters). The “CPE Keep Parameter” feature restores configuration changes should they be accidentally removed by a network administrator.

Auto Provisioning reduces the cost of on-site support and ensures network uniformity.

Real-Time Monitoring

VigorACS 3 displays real-time information of CPEs including uptime, firmware version, resource usage and client number.

Fault conditions such as lost connectivity of CPEs, WAN, LAN, and VPN connections will be highlighted on the dashboard. VigorACS 3 can also be configured to send notifications of the fault conditions to the Network Administrator by SMS or email. Logs provide details of events including device name, MAC address, Device IP, Command Key, and time stamp for events such as file downloads, reboot and parameter changes.

Auto VPN

VigorACS 3 provides the easiest way to set up VPN tunnels from scratch. If a LAN subnet conflict occurs between routers, VigorACS 3 will also design and suggest new LAN subnets. All that is needed is to approve the new LAN settings and the rest will be taken care of.

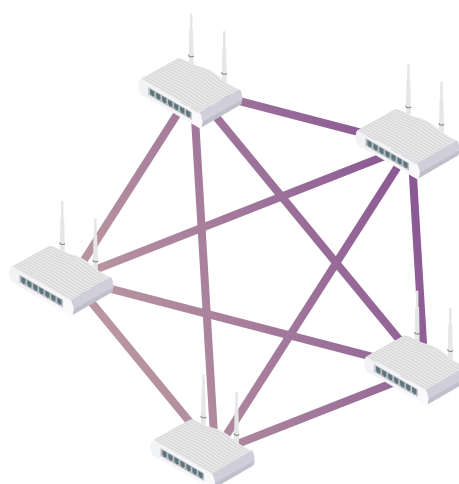
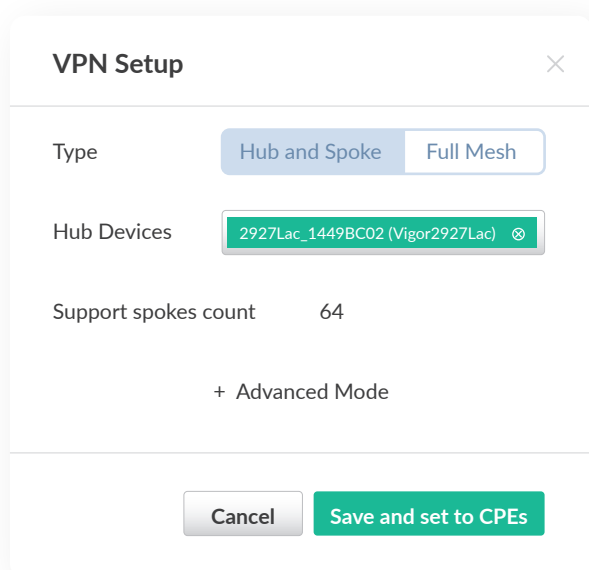
Two types of LAN to LAN VPN tunnels can be created.

1. Hub and Spoke

Simply select the Hub device and VigorACS 3 will automatically create one IPsec tunnel with AES256 encryption from each Spoke to the Hub.

2. Full Mesh

VigorACS 3 will automatically design and create IPsec VPN tunnels with AES256 encryption between each router when 3 or more routers are to form a VPN mesh network.



AP Management

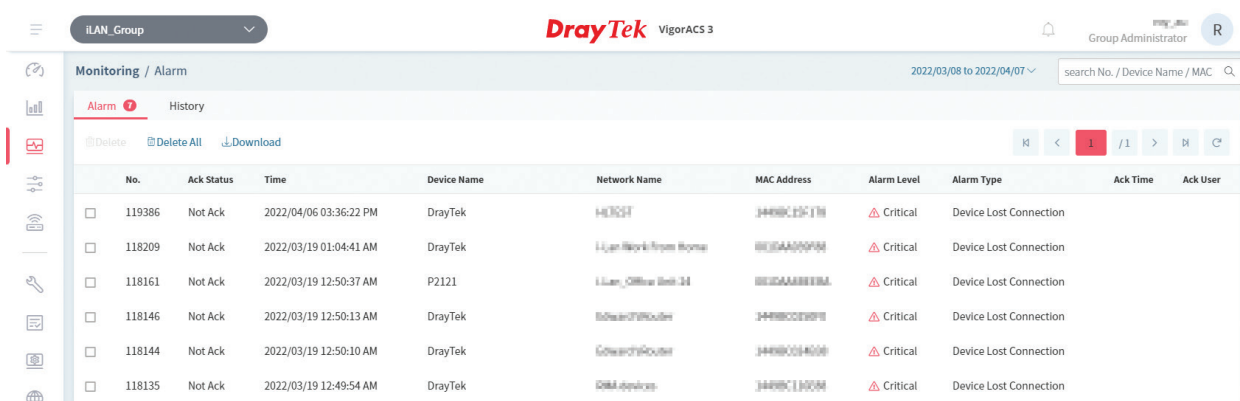
The AP management feature allows monitoring and configuration of VigorAPs. Access Point settings such as SSID, security and load balancing rules can be pre-configured to an AP profile, and automatically applied to the VigorAPs that join the network. The AP Map function allows a floor plan to be uploaded to VigorACS 3. APs can then be placed on it and moved around, which is useful for mapping and deployment of a wireless network.

Alarm & Log Management

VigorACS 3 records real time alarms of fault conditions of any CPEs. It can then send alert messages to specified phone or email accounts. The reports list date, time, alarm type, level and acknowledge status. The alarm details and system details may be used to isolate the nature of the faults, which may be helpful when troubleshooting the issue.

The Log View page displays two types of information: Device Action and System Status. The Device Action page lists network activity data of the CPEs such as download, reboot, parameters and objects added or deleted by VigorACS 3. These records will highlight any changes made to the CPE and when they occurred.

The System page displays the changes made to the CPEs by VigorACS 3 including network names, CPE names and CPE locations.



The screenshot shows the VigorACS 3 web interface. The top navigation bar includes the DrayTek logo, 'VigorACS 3', and a user profile 'Group Administrator'. The main content area is titled 'Monitoring / Alarm' and shows a table of alarms. The table has columns for No., Ack Status, Time, Device Name, Network Name, MAC Address, Alarm Level, Alarm Type, Ack Time, and Ack User. There are 7 rows of data, all with 'Not Ack' status and 'Critical' alarm level, indicating 'Device Lost Connection'.

No.	Ack Status	Time	Device Name	Network Name	MAC Address	Alarm Level	Alarm Type	Ack Time	Ack User
119386	Not Ack	2022/04/06 03:36:22 PM	DrayTek	1470257	344B8C15C17B	Critical	Device Lost Connection		
118209	Not Ack	2022/03/19 01:04:41 AM	DrayTek	1470257	344B8C15C17B	Critical	Device Lost Connection		
118161	Not Ack	2022/03/19 12:50:37 AM	P2121	1470257	344B8C15C17B	Critical	Device Lost Connection		
118146	Not Ack	2022/03/19 12:50:13 AM	DrayTek	1470257	344B8C15C17B	Critical	Device Lost Connection		
118144	Not Ack	2022/03/19 12:50:10 AM	DrayTek	1470257	344B8C15C17B	Critical	Device Lost Connection		
118135	Not Ack	2022/03/19 12:49:54 AM	DrayTek	1470257	344B8C15C17B	Critical	Device Lost Connection		

User Management

The User Management feature provides six privilege levels for users to log into VigorACS 3. These are: System Administrator (the highest), Group Administrator, Administrator, Operator, View Only Operator and Auditor (the lowest). User accounts can also be assigned to a group, and management authority for certain devices (by network) may be assigned to a user group.

VigorACS 3 Versions

VigorACS 3 Trial

VigorACS 3 Trial is a fully functioning version of VigorACS 3 but is limited to a maximum of 20 nodes. The trial licence runs for 30 days, after which it can be upgraded to the full licensed version by purchasing a 1-year licence key for the required number of nodes starting from 25 nodes.

The VigorACS 3 Trial is suitable for system integrators or network administrators who wish to test the suitability of this central management system to manage their network or client networks.

VigorACS 3 Licensed

VigorACS 3 Licensed version is a fully functioning centralised management system running on a self-hosted server either on a Windows or Linux platform. It has all the features of the VigorACS 3 Trial but in a 12-month subscription which is available for up to 10,000 nodes. System integrators can manage multiple networks by creating separate groups for each client, and create individual user accounts for clients to monitor their own networks.

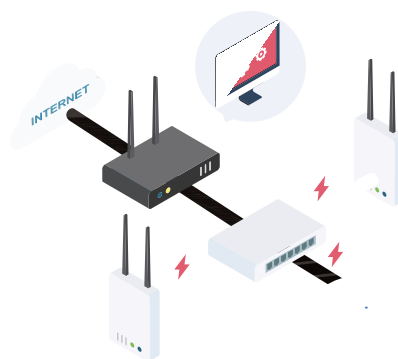
Central AP Management

Virtual Controller > Wireless

The Central AP Management (APM) function (now known as Virtual Controller in DrayOS 5) in supported DrayTek Vigor routers and APs is designed to manage, monitor, and configure up to 50 DrayTek Access Points (depending on the router/AP model) used in a local network from a central console.

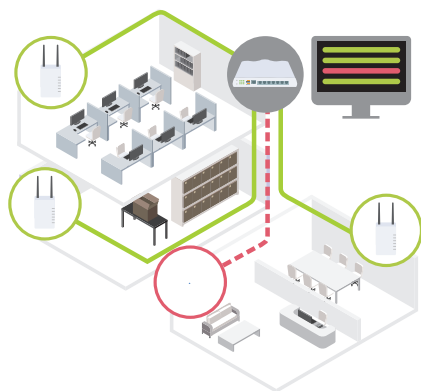
With APM, AP profiles can be preconfigured on a supported router or AP and automatically uploaded to any selected DrayTek VigorAPs on the network. Other functions include:

- Auto-upgrading firmware (routers only)
- Configuration backup and restore (routers only)
- Traffic status monitoring
- AP load balance (routers only)



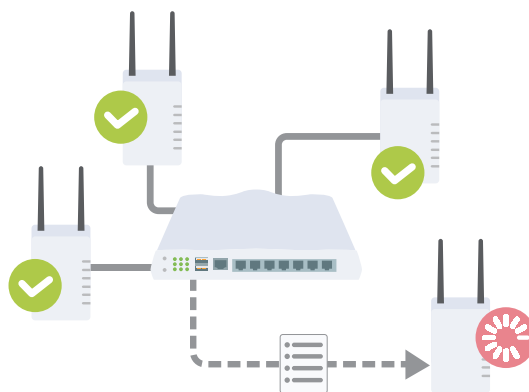
A Centralised View of all the APs

The status monitoring page (now known as Device List in DrayOS 5) presents a list of all VigorAPs on the LAN, displaying their IP addresses, operating channels, SSID of each radio, number of clients, and firmware versions. This page also highlights any offline APs.



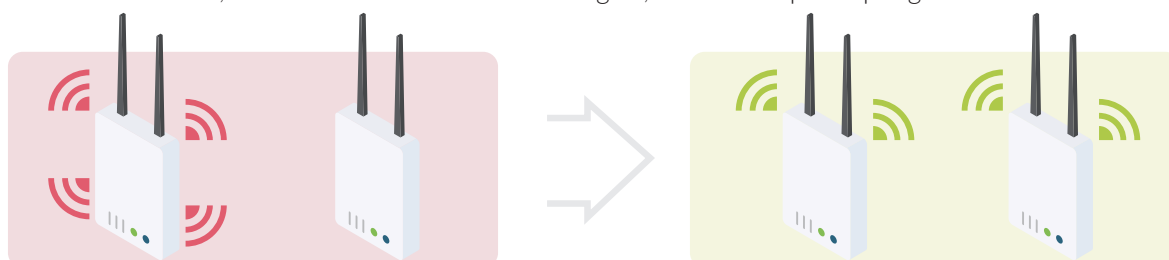
Automatic Provisioning of VigorAPs

Wireless LAN profiles can be created on the router or root AP in advance, which can then be automatically uploaded to any connected VigorAP, improving efficiency when installing new Access Points on the network.



Wi-Fi Client Load Balancing

To help ensure a stable Wi-Fi connection, applying a client limit or traffic limit to an AP prevents it from being overloaded. When the number of clients or amount of traffic on a single AP reaches its threshold, it will either disconnect an idle client, or the client with the weakest signal, or it will stop accepting new clients.



Threat Protection Sentry / Guardian

AI-Assisted Edge Firewall with Cloud Intelligence

VigorShield Threat Protection by DrayTek is an AI-driven, cloud-enhanced security service seamlessly integrated into selected Vigor routers. It delivers enterprise-grade protection for routers, local networks, and every connected device without the exorbitant costs and complexities of traditional security appliances.

Benefits:

DrayTek bridges the gap between sophisticated network security and operational simplicity by combining gateway-based enforcement with real-time cloud intelligence.

- **AI-Assisted Detection:** Uses behaviour-based analysis to identify and neutralise zero-day threats that traditional signature-based tools often miss.
- **Agentless Protection:** Secures computers, mobile phones, and IoT hardware seamlessly—no need to install software on every single endpoint.
- **Encrypted Traffic Safety:** Effectively identifies threats hidden within encrypted traffic without suffering the severe performance lag of full SSL inspection.

Core Protection Layer:

1. Router & Edge Security

The first line of defence. Hardens the network edge by mitigating DoS/DDoS attacks, detecting port scans, and blocking brute-force access attempts. Ensures maximum uptime and stability during active cyber-attacks.



2. Network & Device Monitoring

Provides total network visibility. VigorShield automatically discovers and continuously monitors every device on the LAN. It instantly detects and isolates compromised or suspicious devices, preventing lateral movement of threats across the network.



3. IoT & Unmanaged Device Defence

Closes the "IoT gap" for devices that cannot run antivirus software (e.g., POS systems, IP cameras, printers). Uses behavioural anomaly detection to stop exploit and injection attacks at the network level.



4. Safe Browsing & Content Filtering

Blocks access to known phishing sites, malware hosts, botnet destinations, and ransomware command centres in real-time. Easily enforce acceptable-use policies with flexible, category-based filtering at the user or device level.



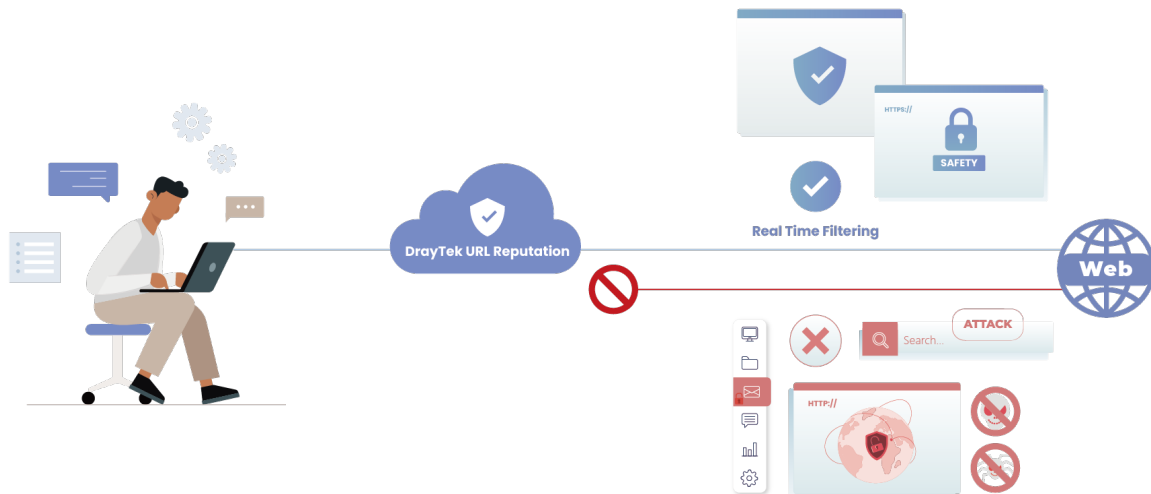
Product Tiers & Supported Platforms:

Features	Sentry	Guardian
Target Environment	SOHO / Small Offices	SMB / High-Density Branches
Supported Models	Vigor2136 / 2767 series	Vigor2867 / 2928 series
Max LAN Devices	Up to 100 devices	Up to 200 devices
Deployment	Edge Gateway + Cloud	Edge Gateway + Cloud
Supported Firmware	F/W 5.3.7.1 or later	Future Support

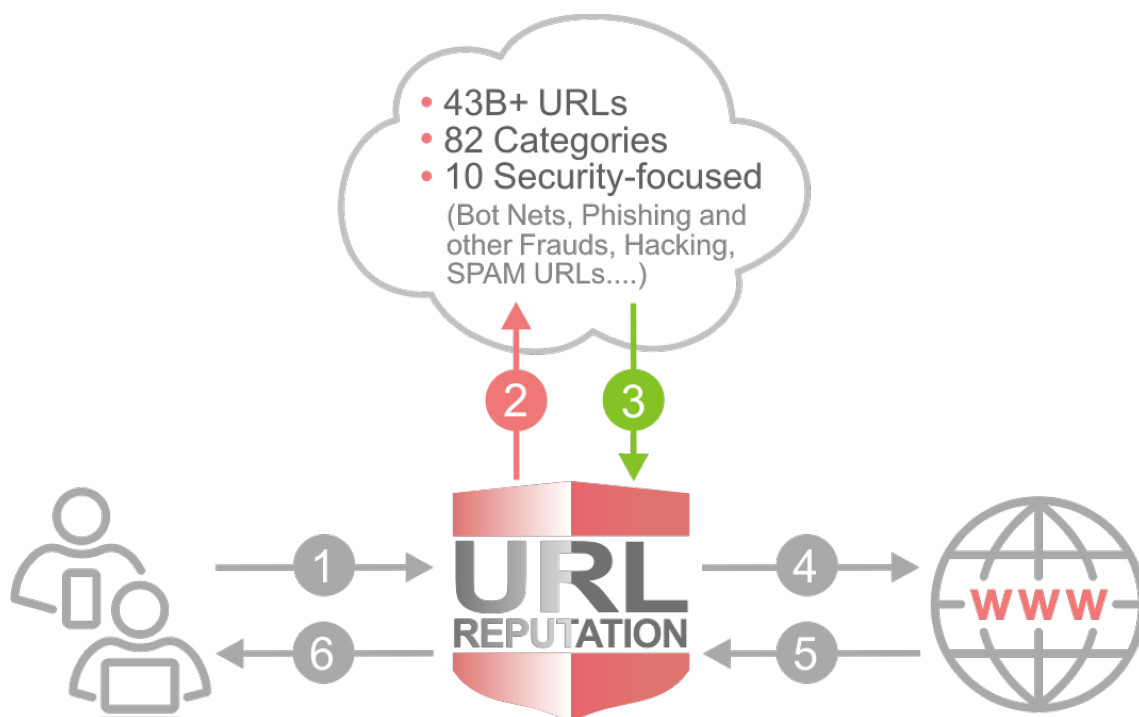
URL & IP Reputation

Smarter, Safer Network Protection

In today's digital landscape, cyber threats are constantly evolving, and so should network security. DrayTek's advanced URL Reputation and IP Reputation services offer a powerful, intelligent layer of protection to safeguard networks against malicious content, harmful domains, and risky connections before threats even reach users.



URL Reputation is DrayTek's dynamic web-filtering solution that evaluates and categorises websites based on their safety and content type. Whether it's preventing access to phishing sites, malware-hosting pages, or inappropriate content, this system uses real-time intelligence from global threat databases to determine whether a website is safe to visit. Administrators can configure flexible policies by category or threat level, empowering them to enforce browsing rules that suit their organisation's needs. It's an ideal solution for schools, businesses, and any environment where safe web usage is critical.



xDSL/Broadband Routers	Vigor167	VigorC510 v2	VigorC510ax v2	Vigor2136	Vigor2136ax	Vigor2136ax-4G
NAT						
NAT Sessions ('000's)	10	50	50	50	50	50
WAN						
Fixed WAN port	VDSL2 35b	1 x GbE	1 x GbE	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE
WAN/LAN configurable port		1 x GbE	1 x GbE	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE
Wireless WAN			✓		✓	✓
Cellular (via USB)		1	1	2	2	1
Cellular (Built-in)		2 x nano SIM	2 x nano SIM			2 x nano SIM
Cellular (eSIM)		✓	✓			
Backup (Fail-Over)		✓	✓	✓	✓	✓
Load-Balancing						
USB						
USB 2.0/USB 3.0		0/0	0/0	2/0	2/0	2/0
LAN						
Gigabit Ethernet	2 x GbE	3 x GbE	3 x GbE	3 x GbE	3 x GbE	3 x GbE
Multiple LAN Subnets		4	4	4	4	4
DMZ Port						
WLAN						
Wi-Fi standard			AX3000		AX3000	AX3000
Mesh Network with VigorAP			✓		✓	✓
Routing						
Static Route		✓	✓	✓	✓	✓
Policy Route		✓	✓	✓	✓	✓
VPN						
Max. VPN Tunnels		16	16	16	16	16
IPsec VPN Throughput (Mbps)		370	370	390	390	390
WireGuard VPN Throughput (Mbps)		50	50	90	90	90
Management						
Bandwidth Management		✓	✓	✓	✓	✓
High Availability						
DrayTek URL Reputation		B key	B key	B key	B key	B key
AP Management		20 nodes	20 nodes	20 nodes	20 nodes	20 nodes
Switch Management		5 nodes	5 nodes	5 nodes	5 nodes	5 nodes
Managed by VigorACS 3	✓	✓	✓	✓	✓	✓
Storage						
Rack Mountable						
Rack Mountable						

xDSL/Broadband Routers	Vigor2230	Vigor2230be	Vigor2767	Vigor2767ax	Vigor2767ax-4G
NAT					
NAT Sessions ('000's)	50	50	50	50	50
WAN					
Fixed WAN port	1 x 10GbE / 1 x 10Gb SFP+ combo	1 x 10GbE / 1 x 10Gb SFP+ combo	VDSL2 35b	VDSL2 35b	VDSL2 35b
WAN/LAN configurable port		1 x 10GbE	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE
Wireless WAN		✓		✓	✓
Cellular (via USB)	2	2	2	2	1
Cellular (Built-in)					2 x nano SIM
Cellular (eSIM)					✓
Backup (Fail-Over)	✓	✓	✓	✓	✓
Load-Balancing					
USB					
USB 2.0/USB 3.0	1/1	1/1	2/0	2/0	2/0
LAN					
Gigabit Ethernet	1 x 10GbE 4 x GbE	1 x 10GbE 4 x GbE	3 x GbE	3 x GbE	3 x GbE
Multiple LAN Subnets	4	4	4	4	4
DMZ Port					
WLAN					
Wi-Fi standard		BE7200		AX3000	AX3000
Mesh Network with VigorAP		✓		✓	✓
Routing					
Static Route	✓	✓	✓	✓	✓
Policy Route	✓	✓	✓	✓	✓
VPN					
Max. VPN Tunnels	16	16	16	16	16
IPsec VPN Throughput (Mbps)	600	600	300	300	300
WireGuard VPN Throughput (Mbps)	90	90	50	50	50
Management					
Bandwidth Management	✓	✓	✓	✓	✓
High Availability					
DrayTek URL Reputation	B key	B key	B key	B key	B key
AP Management	20 nodes	20 nodes	20 nodes	20 nodes	20 nodes
Switch Management	5 nodes	5 nodes	5 nodes	5 nodes	5 nodes
Managed by VigorACS 3	✓	✓	✓	✓	✓
Storage					
Rack Mountable					
Rack Mountable					

xDSL/Broadband Routers	Vigor2867	Vigor2867be	Vigor2867be-5G	Vigor2928	Vigor2928be
NAT					
NAT Sessions ('000's)	60	60	60	60	60
WAN					
Fixed WAN port	1 x VDSL2 35b	1 x VDSL2 35b	1 x VDSL2 35b		
WAN/LAN configurable port	1 x 10GbE	1 x 10GbE	1 x 10GbE	1 x 10GbE 1 x GbE	1 x 10GbE 1 x GbE
Wireless WAN		✓	✓		✓
Cellular (via USB)	2	2	1	2	2
Cellular (Built-in)			2 x nano SIM		
Cellular (eSIM)			✓		
Backup (Fail-Over)	✓	✓	✓	✓	✓
Load-Balancing	✓	✓	✓	✓	✓
USB					
USB 2.0/USB 3.0	2/0	2/0	2/0	2/0	2/0
LAN					
Gigabit Ethernet	1 x 2.5GbE 3 x GbE 1 x SFP+	1 x 2.5GbE 3 x GbE 1 x SFP+	1 x 2.5GbE 3 x GbE 1 x SFP+	1 x 2.5GbE 3 x GbE 1 x SFP+	1 x 2.5GbE 3 x GbE 1 x SFP+
Multiple LAN Subnets	8	8	8	8	8
DMZ Port	1	1	1	1	1
WLAN					
Wi-Fi standard		BE7200	BE7200		BE7200
Mesh Network with VigorAP		✓	✓		✓
Routing					
Static Route	✓	✓	✓	✓	✓
Policy Route	✓	✓	✓	✓	✓
VPN					
Max. VPN Tunnels	50	50	50	50	50
IPsec VPN Throughput (Mbps)	300	300	300	540	540
WireGuard VPN Throughput (Mbps)	80	80	80	85	85
Management					
Bandwidth Management	✓	✓	✓	✓	✓
High Availability	✓	✓	✓	✓	✓
DrayTek URL Reputation	A key	A key	A key	A key	A key
AP Management	20 nodes	20 nodes	20 nodes	20 nodes	20 nodes
Switch Management	10 nodes	10 nodes	10 nodes	10 nodes	10 nodes
Managed by VigorACS 3	✓	✓	✓	✓	✓
Storage					
Rack Mountable					
Rack Mountable	✓	✓	✓	✓	✓

xDSL/Broadband Routers	Vigor2928be-5G	Vigor2963	Vigor2963P	Vigor3912	Vigor3912S
NAT					
NAT Sessions ('000's)	60	80	80	1,000	1,000
WAN					
Fixed WAN port					
WAN/LAN configurable port	1 x 10GbE 1 x GbE	1 x 2.5GbE 2 x GbE 1 x GbE/SFP combo	1 x 2.5GbE 2 x GbE 1 x GbE/SFP combo	2 x 2.5GbE 4 x GbE 2 x SFP+	2 x 2.5GbE 4 x GbE 2 x SFP+
Wireless WAN	✓				
Cellular (via USB)	1	0	0	0	0
Cellular (Built-in)	2 x nano SIM				
Cellular (eSIM)	✓				
Backup (Fail-Over)	✓	✓	✓	✓	✓
Load-Balancing	✓	✓	✓	✓	✓
USB					
USB 2.0/USB 3.0	2/0	1/1	1/1	1/1	1/1
LAN					
Gigabit Ethernet	1 x 2.5GbE 3 x GbE 1 x SFP+	2 x GbE	2 x GbE	4 x GbE	4 x GbE
Multiple LAN Subnets	8	20	20	100	100
DMZ Port	1				
WLAN					
Wi-Fi standard	BE7200				
Mesh Network with VigorAP	✓				
Routing					
Static Route	✓	✓	✓	✓	✓
Policy Route	✓	✓	✓	✓	✓
VPN					
Max. VPN Tunnels	50	200	200	500	500
IPsec VPN Throughput (Mbps)	540	1000	1000	3300	3300
WireGuard VPN Throughput (Mbps)	85	360	360	900	900
Management					
Bandwidth Management	✓	✓	✓	✓	✓
High Availability	✓	✓	✓	✓	✓
DrayTek URL Reputation	A key	Silver key	Silver key	Silver key	Silver key
AP Management	20 nodes	50 nodes	50 nodes	50 nodes	50 nodes
Switch Management	10 nodes	30 nodes	30 nodes	30 nodes	30 nodes
Managed by VigorACS 3	✓	✓	✓	✓	✓
Storage					256GB SSD
Rack Mountable					
Rack Mountable	✓	✓	✓	✓	✓

Wireless Access Points		VigorAP 1070C	VigorAP 905	VigorAP 805
Capacity				
Band	2.4 GHz	✓	✓	✓
	5 GHz	✓	✓	✓
	6 GHz	✓		
2.4 GHz Max. Link Rate (Mbps)		1376	574	574
5 GHz Max. Link Rate (Mbps)		5765	2402	2402
6 GHz Max. Link Rate (Mbps)		11530		
Max. Clients (per band)		512	256	256
Physical				
Port	1 GbE		4	1
	2.5 GbE	1	1 (PoE-PD)	1
	10 GbE	1 (PoE-PD)		DC
USB Port		1 x USB 2.0	1 x USB 2.0	
Power Input		DC / PoE	DC / PoE	DC
Antenna		4x4 Internal	2x External DB + 1x Internal 5G	5x Internal (2x 2.4G + 3x 5G)
Mounting		Wall / Ceiling	Wall / Desktop	Desktop
Wireless Standard				
2.4 GHz Standard		11b/g/n/ax/be	11b/g/n/ax	11b/g/n/ax
5 GHz Standard		11a/n/ ac wave 2/ax/be	11a/n/ ac wave 2/ax	11a/n/ ac wave 2/ax
6 GHz Standard		11ax/be		
Key Features				
AP-Assisted Roaming		✓	✓	✓
AirTime Fairness		✓	✓	✓
Band Steering		✓	✓	✓
Max. Number of SSID (per band)		24 (8)	16 (8)	16 (8)
802.1q tag-based VLAN		✓	✓	✓
Built-in RADIUS Server		✓	✓	✓
Management				
Stand-Alone Operation		✓	✓	✓
Mesh (Root/Node)		Root/Node	Root/Node	Root/Node
Central AP Management (APM)		50 APs	20 APs	20 APs
Managed by VigorConnect		✓	✓	✓
Managed by VigorACS 3		✓	✓	✓

Network Switches	VigorSwitch PX2060	VigorSwitch X2060x	VigorSwitch PQ2300xb	VigorSwitch Q2300x	VigorSwitch PQ2121x	VigorSwitch Q2121x
Performance						
Buffer Size (Mbit)	12	12	16	16	12	12
Switching Capacity (Gbps)	160	160	240	240	120	120
Forwarding Rate (64 bytes)(Mpps)	119.04	119.04	178.56	178.56	89.28	89.28
MAC Address Table	16K	16K	32K	32K	16K	16K
Jumbo Frame (Max.)(KB)	12	12	12	12	10	10
L3 Routing Table			✓	✓	✓	✓
Port						
RJ-45 (1GbE/2.5GbE/10GbE)	0/0/4	0/16	0/24	0/24	0/8	0/8
SFP/SFP+	0/2	0/4	0/6	0/6	0/4	0/4
RJ-45/SFP Combo (1GbE)						
Console			1	1	1	1
PoE						
PoE+ Ports/PoE++ Ports	0/4		16/8		8/0	
PoE Power Budget (watts)	140		400		140	
LAN						
Spanning Tree	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP
Link Aggregation Group (LACP) (Max. Group Number / Max. Number in each group)	8/8	8/8	8/8	8/8	8/8	8/8
ONVIF Surveillance	✓	✓	✓	✓	✓	✓
VLAN						
Tag-Based VLAN / MAC-Based VLAN / Voice & Surveillance VLAN	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y
GVRP/QinQ (Basic)	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y
Layer3 Features						
Static Route / VLAN Route / DHCP Server	✓	✓	✓	✓	✓	✓
Security						
IP Conflict Detection & Prevention / IP Source Guard	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y
Access Control List	✓	✓	✓	✓	✓	✓
802.1X/MAC Authentication	✓	✓	✓	✓	✓	✓
Dynamic ARP Inspection (DAI)	✓	✓	✓	✓	✓	✓
DHCP Snooping	✓	✓	✓	✓	✓	✓
Traffic Control	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense
Multicast						
IGMP Snooping	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)
MLD Snooping (Basic)	v1, v2	v1, v2	v1, v2	v1, v2	v1, v2	v1, v2
Management						
sFlow	✓	✓	✓	✓	✓	✓
SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
LLDP / LLDP-MED	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y
VigorRouter Mgmt. (SWM)	✓	✓	✓	✓	✓	✓
Managed by VigorConnect	✓	✓	✓	✓	✓	✓
Managed by VigorACS 3	✓	✓	✓	✓	✓	✓

Network Switches	VigorSwitch PQ1070x	VigorSwitch Q1070x	VigorSwitch Q60	VigorSwitch P2542xh	VigorSwitch P2542x
Performance					
Buffer Size (Mbit)	8	8	8	16	16
Switching Capacity (Gbps)	65	65	45	216	216
Forwarding Rate (64 bytes)(Mpps)	48.36	48.36	33.5	160.7	160.7
MAC Address Table	16K	16K	4K	32K	32K
Jumbo Frame (Max.)(KB)	10	10	12	12	12
L3 Routing Table	✓	✓		✓	✓
Port					
RJ-45 (1GbE/2.5GbE/10GbE)	0/5/0	0/5/0	0/5	48/0	48/0
SFP/SFP+	0/2	0/2	0/1	0/6	0/6
RJ-45/SFP Combo (1GbE)					
Console	1	1		1	1
PoE					
PoE+/PoE++ Ports	5/0			48/0	48/0
PoE Power Budget (watts)	75			680	400
LAN					
Spanning Tree	STP, RSTP	STP, RSTP		STP, RSTP, MSTP	STP, RSTP, MSTP
Link Aggregation Group (LACP) (Max. Group Number / Max. Number in each group)	---	---		8/8	8/8
ONVIF Surveillance				✓	✓
VLAN					
Tag-Based VLAN / MAC-Based VLAN / Voice & Surveillance VLAN	Y/N/N	Y/N/N		Y/Y/Y	Y/Y/Y
GVRP/QinQ (Basic)	N/N	N/N		Y/Y	Y/Y
Layer3 Features					
Static Route / VLAN Route / DHCP Server				✓	✓
Security					
IP Conflict Detection & Prevention / IP Source Guard	N/N	N/N		Y/Y	Y/Y
Access Control List	✓	✓		✓	✓
802.1X/MAC Authentication				✓	✓
Dynamic ARP Inspection (DAI)				✓	✓
DHCP Snooping				✓	✓
Traffic Control	Storm Control	Storm Control		Storm Control, DoS Defense	Storm Control, DoS Defense
Multicast					
IGMP Snooping	v2, v3(BISS)	v2, v3(BISS)		v2, v3(BISS)	v2, v3(BISS)
MLD Snooping (Basic)	v1, v2	v1, v2		v1, v2	v1, v2
Management					
sFlow				✓	✓
SNMP	---	---		v1, v2c, v3	v1, v2c, v3
LLDP / LLDP-MED	N/N	N/N		Y/Y	Y/Y
VigorRouter Mgmt. (SWM)	✓	✓		✓	✓
Managed by VigorConnect	✓	✓		✓	✓
Managed by VigorACS 3	✓	✓		✓	✓

Network Switches	VigorSwitch G2542x	VigorSwitch P2282x	VigorSwitch G2282x	VigorSwitch P1282	VigorSwitch G1282
Performance					
Buffer Size (Mbit)	16	12	12	4.2	4.2
Switching Capacity (Gbps)	216	128	128	56	56
Forwarding Rate (64 bytes)(Mpps)	160.7	95.2	95.2	41.7	41.7
MAC Address Table	32K	16K	16K	8K	8K
Jumbo Frame (Max.)(KB)	12	12	12	9	9
L3 Routing Table	✓	✓	✓		
Port					
RJ-45 (1GbE/2.5GbE)	48/0	24/0	24/0	24/0	24/0
SFP/SFP+	0/6	0/4	0/4		
RJ-45/SFP Combo (1GbE)				4	4
Console	1	1	1		
PoE					
PoE+ Ports/PoE++ Ports		24/0		24/0	
PoE Power Budget (watts)		400		400	
LAN					
Spanning Tree	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP	STP, RSTP
Link Aggregation Group (LACP) (Max. Group Number / Max. Number in each group)	8/8	8/8	8/8	8/8	8/8
ONVIF Surveillance	✓	✓	✓	✓	✓
VLAN					
Tag-Based VLAN / MAC-Based VLAN / Voice & Surveillance VLAN	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y
GVRP/QinQ (Basic)	Y/Y	Y/Y	Y/Y	N/N	N/N
Layer3 Features					
Static Route / VLAN Route / DHCP Server	✓	✓	✓		
Security					
IP Conflict Detection & Prevention / IP Source Guard	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y
Access Control List	✓	✓	✓	✓	✓
802.1X/MAC Authentication	✓	✓	✓		
Dynamic ARP Inspection (DAI)	✓	✓	✓		
DHCP Snooping	✓	✓	✓		
Traffic Control	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense	Storm Control, DoS Defense
Multicast					
IGMP Snooping	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)	v2, v3(BISS)
MLD Snooping (Basic)	v1, v2	v1, v2	v1, v2		
Management					
sFlow	✓	✓	✓		
SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
LLDP / LLDP-MED	Y/Y	Y/Y	Y/Y	Y/N	Y/N
VigorRouter Mgmt. (SWM)	✓	✓	✓	✓	✓
Managed by VigorConnect	✓	✓	✓	✓	✓
Managed by VigorACS 3	✓	✓	✓	✓	✓

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