



# DrayTek

## Vigor 2135ax

High-Performance VPN SOHO  
Firewall Router

### Product Overview

The DrayTek Vigor 2135ax Ethernet VPN routers are ideal for Small Office and Home Office networks. Featuring powerful Firewall and Content Filtering, configurable Quality of Service and an array of VPN capabilities, with the performance to make full use of FTTP Fibre Broadband.

### Key Features & Benefits

#### Full Fibre Ethernet Router

Reliable and fast Internet connectivity with Failover backup WAN and powerful Route policy.

#### Powerful SoHo Router

Connect up to 2 Remote Dial-In User tunnels, Site-to-Site or connect to VPN services.

#### Wi-Fi AX3000 Wireless Network

Featuring Wi-Fi 6 with up to 3 Gigabits link rate for real Gigabit wireless.

#### VPN Matcher

Break through NAT and CG-NAT with DrayTek's VPN Matcher service for LAN to LAN and Teleworker VPNs.

#### V4 Gigabit LAN Ports with VLANs

4 LAN ports and 4 LAN subnets allow for implementation of complex & secure networks.

#### DrayTek SSL VPN

Access the Vigor 2135ax's network remotely with a securely TLS encrypted VPN tunnel.

#### Firewall & Content Filtering

Manage Internet access with Firewall, App Enforcement & Category-based Web Filtering.

#### VigorACS Central Management

Easily provision, monitor and manage remote sites without on-site IT or dedicated staff.

# Key Specification

Gigabit Ethernet WAN Router with Failover  
Up to 940Mbps Firewall Throughput for Ethernet WAN  
4 Gigabit LAN Ports  
AX3000 - 11ax Dual Band Wireless  
4 LAN Subnets with VLANs (Port-based / 802.1q)  
SPI Firewall and Content Filtering  
Up to 150Mbps IPsec VPN Throughput

2 LAN-to-LAN or Remote Teleworker VPN Tunnels  
DrayTek SSL VPN and OpenVPN support  
Optional VigorCare Available  
Can be centrally Managed by VigorACS

## Full Specifications

### Physical Interfaces:

- WAN1 Port: 1x Gigabit Ethernet (1G/100M/10M), RJ-45
- LAN Ports: 4x Gigabit Ethernet (1G/100M/10M), RJ-45
- 2x USB 2.0 Port for 3G/4G Modem (not included), USB storage, thermometer or Printer
- Wireless On / Off / WPS button
- Recessed Factory Reset button

### Antenna Specifications:

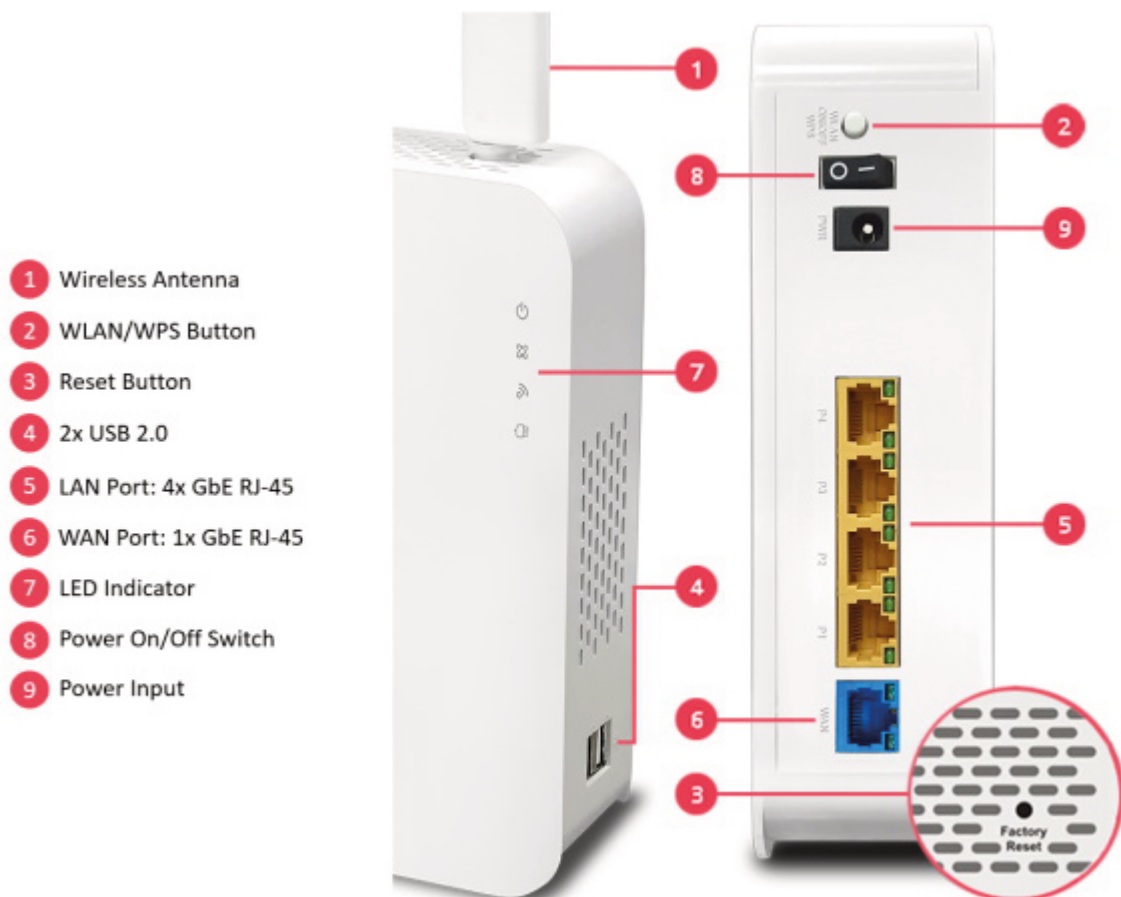
- Wireless Antennas:
  - 2x External Dipole Antennas
  - 5GHz Gain: 2.5 dBi
  - 2.4GHz Gain: 2.7 dBi

### Performance:

- Router Performance:
  - 940 Mb/s NAT Throughput for Ethernet WAN with Hardware Acceleration
  - 600 Mb/s NAT Throughput per Ethernet WAN without Hardware Acceleration
  - 50,000 NAT Sessions
- VPN Performance:
  - 150 Mb/s IPsec (AES256) VPN Throughput
  - 100 Mb/s SSL VPN Throughput
  - Max. 2 Concurrent VPN Tunnels

### Internet Connection:

- Hardware Acceleration
- 802.1p/q Multi-VLAN Tagging
- Multi-VLAN/PVC
- Connection Detection: PPP, ARP Detect, Ping Detect
- WAN Data Budget
- Dynamic DNS
- DrayDDNS - with automated LetsEncrypt Certificates
- Full Feature-set Hardware Acceleration:
  - Hardware Accelerated Quality of Service
  - WAN Data Budget
  - Traffic Graph & Data Flow Monitor
  - Bandwidth Limit
- IPv4 Connection Types: PPPoE, DHCP, Static IP, PPTP/L2TP
- IPv6 Connection Types:
  - Ethernet: PPP, DHCPv6, Static IPv6, TSPP, AICCU, 6rd, 6in4 Static Tunnel
  - USB 4G/LTE Modem: TSPC, AICCU, DHCPv6, Static IPv6



# Full Specifications

## Wireless Features:

- AX3000 Wi-Fi 6 Wireless:
  - 802.11ax 2x2 wireless access point
  - Compatible with 802.11a/b/g/n/ac wireless
  - Dual-band (2.4/5GHz) simultaneous wireless
  - Up to 2402Mbps PHY rate with 5GHz
  - Up to 574Mbps PHY rate with 2.4GHz (256-QAM)
  - Channel Bandwidth: 20/40MHz for 2.4GHz, 20/40/80/160MHz for 5GHz
  - MU-MIMO
- Up to 4 SSIDs per radio band
- Extended 5Ghz Band - Channels 36-48, 52-64, 100-140
- Wireless Optimisation: Airtime Fairness, AP-Assisted Mobility, Band Steering
- Bandwidth Management (Per Station / Per SSID)
- WMM (Wireless MultiMedia)
- WPS - WiFi Protected Setup
- Station Control - Time limited wireless connectivity per Station (e.g. 1 hour)
- EAPOL Key Retry - Disable EAPOL Key Retry to protect unpatched WLAN clients from KRACK
- Wireless Security:
  - WPA2
  - WPA3 - New!
  - Pre-Shared Key authentication
  - WEP/WPA for Legacy Clients
  - Access Control - Blacklist / Whitelist client MAC addresses per SSID

## Networking Features:

- Policy-based Routing: Protocol, IP Address, Port, Domain/Hostname, Country
- DNS Security (DNSSEC)
- Local RADIUS server
- SMB File Sharing (Requires external USB storage)
- Multicast: IGMP Proxy, IGMP Snooping & Fast Leave, Bonjour
- Compatible with IPTV and ISP Video on Demand services (YouView, Sky Q)
- Routing Features: IPv4 & IPv6 Static Routing, Inter-VLAN Routing

## VPN Features:

- 2 Concurrent active VPN Tunnels
- LAN-to-LAN - Dial-Out VPN Client / Dial-In VPN Server
- Teleworker-to-LAN - Dial-In VPN Server
- IKE Authentication: Pre-Shared Key and Digital Signature (X.509)
- Encryption: MPPE, DES, 3DES, AES (128/192/256)
- Authentication: SHA-256, SHA-1
- Dead Peer Detection (DPD)
- IPsec NAT-Traversal (NAT-T)
- Virtual IP Mapping - Resolve VPN IP subnet/range conflicts
- DHCP over IPsec
- DrayTek VPN Matcher - Connect to a VPN router that's behind NAT/CG-NAT - New!
- VPN Protocols:
  - IPsec IKEv1, IKEv2, IKEv2 EAP
  - IPsec-XAuth
  - DrayTek SSL VPN
  - OpenVPN
  - PPTP for legacy applications
  - L2TP, L2TP over IPsec
- User Authentication:
  - Local
  - RADIUS
  - mOTP - Mobile One Time Password
  - TOTP - Time-based One Time Password, compatible with Google Authenticator - New

## Bandwidth Management:

- IP-based (IPv4 & IPv6) Bandwidth Limit
- App-based Bandwidth Limit - New!
- IP-based (IPv4 & IPv6) Session Limit

## Quality of Service (QoS):

- Classify via TOS, DSCP, 802.1p, IP Address, Service Type
- 4 Priority Queues
- App QoS
- VoIP Prioritization
- Class-based Outbound Traffic Tagging: DSCP & IP Precedence

## Firewall & Content Filtering:

- IP-based Firewall Policy
- User-based Time Quota
- DoS Attack Defence
- Spoofing Defence
- Content Filtering:
  - Application Content Filter
  - URL Content Filter
  - DNS Keyword Filter
  - Web Features
  - Web Category Filter (requires GlobalView subscription)
  - DoH (DNS over HTTP) & DoT (DNS over TLS) Filtering - New!

## NAT Features:

- NAT Port Redirection
- Open Ports
- Port Triggering
- DMZ Host
- UPnP
- ALG (Application Layer Gateway): SIP, RTSP, FTP, H.323
- VPN Pass-Through: PPTP, L2TP, IPsec

## LAN Management:

- 802.1q Tag-based, Port-based VLAN
- Up to 4 LAN Subnets
- Up to 4 VLANs
- DHCP Server:
  - Multiple IP Subnet
  - Custom DHCP Options
  - Bind-IP-to-MAC
  - DHCP Pool Count up to 253 addresses per subnet
- Wired 802.1x Port Authentication
- Port Mirroring
- Local DNS Server
- Conditional DNS Forwarding

## Management:

- Local Service: HTTP, HTTPS, Telnet, SSH, FTP, TR-069
- Config File Export & Import
- Auto Backup Config to USB Storage - New!
- Firmware Upgrade via TFTP, HTTP, TR-069
- 2-Level Administration Privilege
- Access Control Features: Access List, Brute Force Protection
- Syslog
- SMS, E-mail Notification Alert
- SNMP: v1, v2c, v3
- Managed by VigorACS

## Router Central Management Features:

- AP Management: 2 VigorAP access points

## Operating Requirements:

- Wall or Shelf Mountable with included fittings
- Temperature Operating: 0 °C ~ 45 °C
- Storage: -25 °C ~ 70 °C
- Humidity 10% ~ 90% (non-condensing)
- Power Consumption: 23.6 Watts maximum
- Operating Power: DC 12V (via external PSU, supplied)
- Power Requirements : 100-240VAC
- Dimensions:
  - 155mm Width
  - 50mm Depth
  - 194mm Height

## Box Contents:

- Vigor 2135ax router
- Quick Start Guide
- Screws & wall plugs for wall mounting
- 2m Cat-5e RJ-45 Network Cable
- DC 12V Power Supply with UK Plug