

Vigor 2136ax

Multi-Gigabit Ethernet Router With
Wi-Fi 6 AX3000 Wireless,
VPN And Fast 2.5GbE Interfaces

DrayTek



Datasheet

Product Overview

High performance router with 2.5GbE WAN that's ideal for connecting to FTTP modems

The DrayTek Vigor 2136ax Firewall VPN routers allow you to make the most of FTTP Fibre Broadband with future-proof 2.5 Gigabit WAN interfaces, extensive Firewall, Content Filtering, VPN client/server and Quality of Service controls.

Key Features & Benefits

2.5 Gigabit WAN Interfaces for Fibre Broadband

Make full use of Fibre Broadband with the Vigor 2136ax's 2.3 Gigabit throughput. Additional Ethernet, Wireless or USB LTE WAN options are available.

Benefits: Unleash the full potential of fibre broadband: over 2 Gigabit CPE with flexible application.

High-Performance VPN Router for SMB

Securely connect remote sites at high speed, up to 4 VPN tunnels. Connect remote workers to network resources and secure connectivity, with OpenVPN and WireGuard support.

Benefits: Provide secure, encrypted network access for remote workers.

Wi-Fi 6 - AX3000 Performance

Wi-Fi 6 wireless provides gigabit Wi-Fi with reliable throughput. Ideal for time-sensitive video conferencing, low latency gaming and handling 4K Ultra-HD streaming without buffering.

Benefits: Improved wireless performance. Built with the latest technologies.

3+1 Gigabit LAN Ports

Attach Computers, Servers and Network Attached Storage directly, with up to 4 LAN ports. Use VLANs to supply Broadband and VPN connectivity to as many as 4 separate networks.

Benefits: Improve the quality of service for private and guest data traffic. Mix fixed and virtual configurations.

Identity and Access Management (IAM)

The new Identity and Access Management (IAM) feature enables the admin to control access to local resources (servers, NAS drives etc.) based on pre-defined policies, MFA, and external authentication methods.

Benefits: Policy-based access to the local network resources.

Easily Manage Local APs/Switches with the Virtual Controller

Manage devices locally thanks to the router's Virtual Controller feature. Automatic discovery allows the router to add connected DrayTek switches and APs to the management pool.

Benefits: Monitor, maintain, and provision directly on the Vigor router.

Key Specification

- 2.5 Gigabit Ethernet Router
- Up to 2.3Gbps Firewall Throughput
- Up to 390Mbps IPsec VPN Throughput
- 4x LAN-to-LAN & Remote Teleworker VPN Tunnels
- 1x 2.5 Gigabit RJ-45 LAN Port
- 3x Gigabit RJ-45 LAN Ports
- AX3000 – Wi-Fi 6 Dual Band Wireless
- 4 LAN Subnets with VLANs (Port-based / 802.1q)
- SPI Firewall and Content Filtering
- Optional VigorCare Available
- Compatible with VigorACS central management platform

Vigor 2136ax Router Models

UK Product Code	EAN	Product Name	Product Description
V2136AX-K	4710484748409	Vigor 2136ax (UK/IE)	Vigor 2136ax 2.5GbE Ethernet Router with Wi-Fi 6 AX3000 Wireless

Technical Specification (UK Hardware Spec.)

Physical Interfaces

- WAN Ports: 1x 2.5Gigabit Ethernet (2.5G/1G/100M/10M), RJ-45
- WAN/LAN Switchable Port: 1x 2.5Gigabit Ethernet (2.5G/1G/100M/10M), RJ-45
- LAN Ports: 3x Gigabit Ethernet (1G/100M/10M), RJ-45
- 2x USB 2.0 Ports for LTE Modem, Thermometer or Printer
- 2x Removable Wireless LAN antennas (wireless models)
- Wireless On / Off / WPS button
- Recessed Factory Reset button

Antenna Specifications

- Wireless Antennas:
 - 2x External Dipole
 - 5GHz Gain: 2.7 dBi
 - 2.4GHz Gain: 2.6 dBi
 - RP-SMA fitting antenna connectors

Performance

- NAT Performance:
 - 2.3 Gb/s NAT Throughput for Single WAN
 - 50,000 NAT Sessions
- VPN Performance:
 - 390 Mb/s IPsec (AES256) VPN Performance
 - Max. 4 Concurrent VPN Tunnels

Internet Connection

- Hardware Acceleration (Always On)
- 802.1p/q Multi-VLAN Tagging
- Multi-VLAN/PVC
- 2.4GHz or 5GHz Wireless WAN
- WAN Active on Demand: Link Failure, Traffic Threshold
- 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
- IPv6 Connection Types:
 - Ethernet: PPP, DHCPv6, Static IPv6, TSPC, 6rd, 6in4 Static Tunnel

Wireless Features

- AX3000 Wi-Fi 6 Wireless:
 - 802.11ax 2x2 wireless access point
 - Compatible with 802.11 a/b/g/n/ac wireless
 - Dual-band (2.4/5Ghz) simultaneous wireless
 - Up to 2400Mbps PHY rate at 160MHz with 5GHz
 - Up to 574Mbps PHY rate at 40MHz with 2.4GHz
 - Channel Bandwidth: 20/40MHz for 2.4GHz, 20/40/80/160MHz for 5GHz
 - OFDMA
 - MU-MIMO
 - Tx Beamforming
 - 1024-QAM
- Mesh Root support with DrayTek VigorAP Mesh Nodes[^]
- Up to 8 SSIDs per radio band
- Extended 5Ghz Band - Channels 36-48, 52-64, 100-140
- Wireless Optimisation: 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
 - Pre-Shared Key authentication
 - Enterprise 802.1x authentication
 - WEP/WPA for Legacy Clients
 - Access Control – Blacklist / Whitelist client MAC addresses per SSID

WAN Interfaces

- WAN1: 2.5 Gigabit Ethernet
- WAN2: 2.5 Gigabit Ethernet (LAN switchable)
- WAN3: 2.4GHz Wireless WAN
- WAN4: 5GHz Wireless WAN
- WAN5: LTE USB Modem (not included)
- WAN6: LTE USB Modem (not included)

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*

NAT Features

- NAT Port Redirection
- Open Ports
- Port Triggering
- DMZ Host
- UPnP
- ALG (Application Layer Gateway): SIP, RTSP

LAN Management

- 802.1q Tag-based, Port-based VLAN
- Up to 4 LAN Subnets (NAT or Routing mode selectable per LAN interface)
- Up to 8 VLANs
- DHCP Server:
 - Multiple IP Subnet
 - Custom DHCP Options
 - Bind-IP-to-MAC
 - DHCP Pool Count up to 253 addresses for LANs 1-4
 - DHCP Relay per LAN
- Wired 802.1x Port Authentication
- Local DNS Server
- Conditional DNS Forwarding
- Hotspot Web Portal
- Hotspot Authentication: Click-Through, External Portal Server

Networking Features

- Policy-based Routing: Protocol, IP Address, Port
- DNS Security (DNSSEC)
- Local RADIUS server
- SMB File Sharing (Requires external storage)
- Multicast: IGMP Proxy, IGMP Snooping & Fast Leave
- Routing Features: IPv4 & IPv6 Static Routing, Inter-VLAN Routing, RIP v1/v2/ng, BGP

VPN Features

- Up to 4 active VPN tunnels
- Up to 390Mb/s IPsec
- LAN-to-LAN - Dial-In VPN Server & Dial-Out VPN Client
- Teleworker-to-LAN - Dial-In VPN Server
- User Authentication: Local, RADIUS, TACACS+, mOTP, TOTP
- IKE Authentication: Pre-Shared Key and Digital Signature (X.509)
- Encryption: DES, 3DES, AES (128/192/256)
- Authentication: SHA-256, SHA-1
- Dead Peer Detection (DPD)
- IPsec NAT-Traversal (NAT-T)
- DHCP over IPsec
- VPN Protocols:
 - IPsec IKEv1, IKEv2, IKEv2 EAP
 - IPsec-XAuth
 - OpenVPN
 - WireGuard - **New!**

Bandwidth Management

- IP-based Bandwidth Limit
- IP-based Session Limit
- User-based Data Quota
- QoS (Quality of Service):
 - Classify via TOS, DSCP, 802.1p, IP Address, Service Type
 - 4 Priority Queues
 - App QoS
 - VoIP Prioritization

Management

- Local Service: HTTP, HTTPS, Telnet, SSH, FTP, TR-069
- Config File Export & Import
- 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: Up to 20 VigorAP access points
- Switch Management: Up to 5 VigorSwitch network switches
- DrayTek Mesh: Up to 7 VigorAP access points^

Operating Requirements

- Power Requirements: 100-240VAC
- Power Consumption (Watts, maximum): 18W
- Temperature Operating: 0 °C ~ 45 °C
- Storage: -25 °C ~ 70 °C
- Humidity 10% ~ 90% (non-condensing)
- Operating Power: DC 12V @ 1.5A (via external PSU, supplied)
- Wall Mountable

Box Contents

- Vigor 2136ax series router
- Quick Start Guide
- Screws & wall plugs for wall mounting
- 2m Cat-5e RJ-45 Network Cable
- 2x Detachable Wireless LAN Antennas
- DC 12V Power Supply with UK Plug

ROHS, UKCA & CE Compliant Warranty

- Standard: Two (2) Year, RTB
- Software security updates:
 - 5 years after the EOL notification. Please note that this only applies to products sold in the UK
- VigorCare Extended Warranty
 - VigorCare A3 3 Year Subscription: **VCARE-A3**
 - VigorCare A5 5 Year Subscription: **VCARE-A5**

* - subscription required: Group B, URLR-B (includes free 30-day trial)

^ - visit the [DrayTek Mesh Model Compatibility page](#) for mesh compatibility details