Vigor2766ax

The Ideal SoHo Wi-Fi 6 & VPN Router for G.Fast, VDSL and Gigabit Fibre

Product Overview

The Ideal SoHo Wi-Fi 6 & VPN Router for G.Fast, VDSL and Gigabit Fibre

The Vigor 2766ax is DrayTek's G.Fast / VDSL and Ethernet router that is 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.

Incorporating Wi-Fi 6 features, the Vigor 2766ax routers provide a reliable, highly integrated and reliable network solution for SoHo environments.

Key Features & Benefits

G.Fast, VDSL and Ethernet Router

Connect the Vigor 2766 to Ultrafast G.Fast or Superfast VDSL2+ FTTC with the integrated DSL Modem, or connect to Virgin Media Cable and Ultrafast FTTP with the Ethernet WAN port

Benefits: Future Proof G.Fast Router. High speed DSL & Gigabit CPE with flexible application

Powerful SoHo VPN Router

Connect remote locations with 2 VPN tunnels for Remote Dial-In User Teleworker and Dial-Out LAN to LAN VPN. Up to 150Mbps IPsec performance, with SSL and OpenVPN support.

Benefits: Securely access resources remotely. Connect to VPN services for secure browsing

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.

Hardware NAT & Routing with Hardware QoS

The accelerator supports up to 4k NAT and routing connections. With acceleration enabled, Vigor2766's firewall performance can reach 940Mbps, while still meeting high expectation of QoS quality. You may easily prioritize business critical apps, and always keep VoIP in 1st priority.

Benefits: Up to 940Mbps throughput helps utilising fibre speeds.

Packed With Features

Configure DrayTek's rich feature set to fit your network with Route Policy, Quality of Service, VPN Matcher, DrayDDNS and more.

Benefits: Convenient and powerful DrayTek router features for hassle-free networking.

VigorACS Central Management

Use the VigorACS central management platform to manage, monitor and configure the Vigor 2766 series routers remotely across multiple locations.

Benefits: Save time and money. Easily provision, monitor and manage remote sites without on-site IT or dedicated staff.

Key Specifications

- G.Fast (Ultrafast Fibre), VDSL2 (Superfast Fibre), ADSL2+ and Ethernet 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 Dial-Out LAN-to-LAN or Remote Teleworker VPN Tunnels
- DrayTek SSL VPN and OpenVPN support
- Optional VigorCare Available

- Can be centrally Managed by VigorACS

Technical Specification (UK Hardware Spec.)

Physical Interfaces:

- WAN1: G.Fast / VDSL2 / VDSL2 35b / ADSL2+, RJ-11
- WAN2/LAN Switchable Port: 1x Gigabit Ethernet (1G/100M/10M), RJ-45
- WAN3: USB 2.0 Port for 3G/4G Modem (not included)
- LAN Ports: 4x Gigabit Ethernet (1G/100M/10M), RJ-45 (3x with WAN2 enabled)
- 2x USB 2.0 Port for USB storage, thermometer or Printer
- 2x External Dipole Wireless antennas
- Wireless On / Off / WPS button
- Recessed Factory Reset button

Antenna Specification:

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

Performance:

- Router Performance:
  - 1.3Gb/s Max Sync Rate with G.Fast (dependant on ISP & Exchange equipment)
  - 100 Mb/s Max Sync Rate with VDSL2
  - 300 Mb/s Max Sync Rate with VDSL2 35b
  - 950 Mb/s NAT Throughput for Ethernet WAN with Hardware Acceleration
  - 700 Mb/s NAT Throughput per WAN without Hardware Acceleration
  - 50,000 NAT Sessions

- VPN Performance:
  - 150 Mb/s IPsec (AES256) VPN Throughput
  - 80 Mb/s SSL VPN Throughput
  - Max. 2 Concurrent VPN Tunnels

Internet Connection:

- Failover / Backup WAN
- 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
  - Multi-WAN Data Budget
  - Traffic Graph & Data Flow Monitor
  - Bandwidth Limit
- IPv4 Connection Types: PPPoE / PPPoA, MPoA, DHCP, Static IP,
- PPTP/L2TP (Ethernet WAN)
- IPv6 Connection Types:
  - DSL & Ethernet: PPP, DHCPv6, Static IPv6, TSPC, AICCU, 6rd, 6in4 Static Tunnel
  - USB 4G/LTE Modem: TSPC, AICCU

G.Fast, VDSL & ADSL2+ Features:

- BT Infinity Option 1 & Option 2 Compatible
- Compliant with Openreach SIN 527 & SIN 498
- Auto Detection of G.Fast, VDSL and ADSL line modes
- Support for G.INP & Vectoring
- **G.Fast Standards:**
  - ITU-T G.9700, G.9701 G.Fast
  - Profile: 212MHz & 106MHz Protocol
- **VDSL Standards:**
  - ITU-T G.993.1 VDSL
  - TU-T G.993.2, G.997.1 VDSL2
  - Band Plan: G.998, G.997
  - Annex A, Annex B, Annex C
  - VDSL2 Profile: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 35b
  - OLR, UPBO, DPBO Supported
  - US0 Supported
  - Loop Diagnostic Mode
  - DSL Forum WT-114
- **ADSL2 Standards:**
  - ITU-T G.992.3 ADSL2
  - ITU-T G.992.5 ADSL2+
- **ATM Protocols:**
  - RFC-2684/RFC-1483 Multiple Protocol over AAL5
  - RFC-2516 PPP over Ethernet
  - RFC-2364 PPP over AAL5
  - Support for RFC4638 for MTU up to 1500

UK Product Code	EAN	Product Name	Product Description
V2766AX-K	4710484745507	Vigor 2766ax (UK/IE)	Vigor 2766ax router with Wi-Fi 6 AX3000 wireless

DrayTek

Wireless Features:

- AX3000 - 11ax MU-MIMO Wireless:
  - 802.11ax 2x2 wireless access point
  - 2.4GHz: 2x2 MIMO with 2.7 dBi Antenna Gain
  - 5GHz: 2x2 MU-MIMO with 2.5 dBi Antenna Gain
  - Backwards 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
- 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
  - Pre-Shared Key authentication
  - WEP/WPA for Legacy Clients
  - Access Control – Blacklist / Whitelist client MAC addresses per SSID

Firewall & Content Filtering:

- IP-based Firewall Policy
- DoS Attack Defence
- Spoofing Defence
- Content Filtering:
  - Application Content Filter
  - URL Content Filter
  - DNS Keyword Filter
  - Web Features
  - Web Category Filter (requires GlobalView subscription)

NAT Features:

- NAT Port Redirection
- Open Ports
- Port Triggering
- DMZ Host
- UPnP
- ALG (Application Layer Gateway): SIP (configurable), RTSP (configurable), 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 8 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

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
- Teleworker-to-LAN – Dial-In VPN Server
- User Authentication: Local, mOTP
- 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

Bandwidth Management:

- IP-based Bandwidth Limit
- IP-based Session Limit
- 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
- 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: Up to 2 VigorAP access points

Operating Requirements:

- Wall or Shelf Mountable
- Temperature Operating: 0 °C ~ 45 °C
- Storage: -25 °C ~ 70 °C
- Humidity 10% ~ 90% (non-condensing)
- Power Consumption: 24 Watts maximum
- Dimensions: 194 x 155 x 50
- Operating Power: DC 12V (via external PSU, supplied)
- Warranty : Two (2) Years RTB
- Power Requirements: 220-240VAC

Box Contents:

- Vigor 2766ax router
- Quick Start Guide
- Screws & wall plugs for wall mounting
- 2m Cat-5e RJ-45 Network Cable
- DC 12V Power Supply with UK Plug