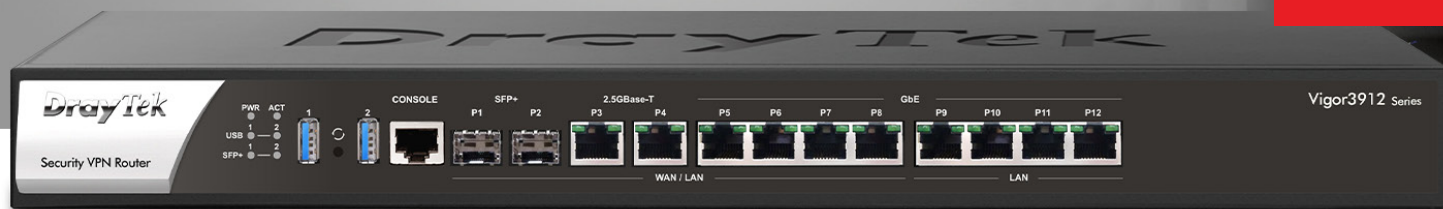# DrayTek

Vigor 3912

12.5Gb Enterprise Grade High-Performance VPN Router
with Multi-WAN Load-Balance and Failover Capabilities

Product Overview

The DrayTek Vigor 3912 series is a premium next generation multi-WAN router making it ideal for your most demanding and complex networks. This VPN concentration is the evolution of our powerful 3910 model with even faster hardware to solve your large network challenges.

Key Features & Benefits

Powerful Enterprise Internet Gateway

Featuring a Quad-Core Processor, the Vigor 3912 readily meets the needs of demanding networks, with improved NAT throughput of over 12Gb/s delivered through its 10GbE & 2.5GbE ports.

Benefits: **Full potential of the Internet, without limits, available across many different environments.**

Manage Multiple Networks

Create up to 100 port- or tag-based VLANs, each fully configurable for NAT or Routing, and share resources between networks or keep them isolated.

Benefits: **Ideal for separating departments or managed offices. Secure and segment your networks with ease.**

High-Performance VPN Concentrator

Protect inter-office communication with securely encrypted Virtual Private Network tunnels, maintaining up to 3Gb/s IPsec throughput and supporting 500 simultaneous VPN links.

Benefits: **Affordably optimise remote working with no bottle necks**

High Availability

Provide hardware redundancy to mission critical applications with the installation of a second Vigor 3912. The backup autonomously resumes connections in the event of hardware failover.

Benefits: **Prevent a single point of failure and capitalise on maximum uptime.**

Flexible WAN Architecture

Spread the load across up to 8 WAN links with Load Balancing. Policy-based Routing enables intelligent and flexible failover, for reliable and resilient connectivity.

Benefits: **You decide your priorities, Load Balancing meets your needs with stable business continuity.**

Switchable WAN & LAN Ports

12 physical ports with 4 dedicated LAN ports and 8 switchable LAN or WAN ports. Allowing for up to 11 LAN ports in total, or Load Balancing up to 8 WAN connections.

Benefits: **Customisable to suit your network requirements.**

Key Specification

- Multi-WAN Router with over 12Gbps NAT Throughput
- 8x WAN/LAN Switchable Ports & 4x fixed Ethernet LAN Ports
- 2x 10GbE SFP+ and 2x 2.5GbE for WAN/LAN
- Up to 3Gbps Total IPsec VPN Throughput
- 500 LAN-to-LAN & Remote Teleworker VPN Tunnels
- 200 DrayTek SSL VPN or OpenVPN Tunnels
- Up to 100 LAN Subnets with VLANs (Port-based / 802.1q)
- SPI Firewall and Content Filtering
- Optional VigorCare Available
- Compatible with VigorACS central management platform

Vigor 3912 Router Models

UK Product Code	EAN	Product Name	Product Description
V3912-K	4710484747013	Vigor 3912 (UK/IE)	Vigor 3912 VPN Enterprise Router

Technical Specification (UK Hardware Spec.)

Physical Interfaces
- WAN/LAN Switchable Port
  – 2x 10G/1G SFP+ Fibre Slot
  – 2x 2.5G/1G/100M/10M Ethernet, RJ-45
  – 4x 1G/100M/10M Ethernet, RJ-45
- Fixed LAN Port
  – 4x 1G/100M/10M Ethernet, RJ-45
- 2x USB 3.0 Port
- 1x RJ-45 Console Port
- 1x Factory Reset Button

Performance
- 12.5Gb/s NAT Throughput
- 3Gb/s VPN Performance
- 1000K NAT Sessions
- Max. 500 Concurrent VPN Tunnels
- Max. 200 Concurrent SSL VPN

Internet Connection
- IPv4
  – PPPoE, DHCP, Static IP
- IPv6
  – PPP, DHCPv6, Static IPv6, 6rd, 6in4 Static Tunnel
- 802.1p/q Multi-VLAN Tagging
- Multi-VLAN/PVC
- IP-based, Session-based Load Balancing
- WAN Active on Demand
  – Link Failure, Traffic Threshold
- PPP, Ping Connection Detection
- Dynamic DNS
- DrayDDNS with LetsEncrypt Certificate support

Networking Features
- IPv4 Static Routing, IPv6 Static Routing, Inter-VLAN Routing, RIP v1/v2/ng, OSPFv2, BGP
- Policy-based Routing
  – Protocol, IP Address, Port, Domain, Country
- High Availability: Active-Standby, Hot-Standby
- DNS Security (DNSSEC)
- Multicast: IGMP Proxy, IGMP Snooping & Fast Leave, Bonjour
- Local RADIUS server
- SMB File Sharing (Requires external storage)

LAN Management
- 802.1q Tag-based, Port-based VLAN
- Up to 100 LAN Subnets (NAT or Routing mode selectable per LAN interface)
- DHCP Server:
  – Multiple IP Subnet
  – Custom DHCP Options
  – Bind-IP-to-MAC
  – DHCP Pool Count up to 4093 addresses for each subnet
- LAN IP Alias
- Wired 802.1x Port Authentication
- PPPoE Server
- Local DNS Server
- Conditional DNS Forwarding
- Port Mirroring / Packet Capturing
- Hotspot Web Portal
- Hotspot Authentication
  – Click-Through, Social Login, SMS PIN, RADIUS, External Portal Server

Management
- Local Service
  – HTTP, HTTPS, Telnet, SSH, FTP, TR-069
- Config File Export & Import
- Firmware Upgrade
  – TFTP, HTTP, TR-069
- 2-Level Administration Privilege
- Access Control
  – Access List, Brute Force Protection
- Syslog
- SMS, E-mail Notification Alert
- SNMP
  – v1, v2c, v3
- Managed by VigorACS
- Router-based Central AP Management up to 50 VigorAP devices
- Router-based Central Switch Management up to 30 VigorSwitch devices

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

VPN
- Up to 500 active VPN tunnels - including up to 200 SSL VPN or OpenVPN Tunnels
- Up to 16 Hardware Accelerated 800Mb/s IPsec tunnels
- LAN-to-LAN - Dial-In VPN Server & Dial-Out VPN Client
- Teleworker-to-LAN – Dial-In VPN Server
- User Authentication
  - Local, RADIUS, LDAP, TACACS+, mOTP, TOTP - **New!**
- IKE Authentication
  - Pre- Shared Key, X.509, XAuth, EAP
- IPsec Authentication
  - SHA-1, SHA-256, MD5
- MPPE, DES, 3DES, AES Encryption
- VPN Trunk (Redundancy)
  - Load Balancing, Failover
- Single-Armed VPN
- NAT-Traversal (NAT-T)
- VPN Protocols:
  - IPsec IKEv1, IKEv2, IKEv2 EAP
  - IPsec-XAuth
  - DrayTek SSL VPN
  - OpenVPN
  - WireGuard
  - GRE over IPsec
  - PPTP
  - L2TP, L2TP over IPsec

Firewall & Content Filtering
- 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
- ALG (Application Layer Gateway)
- IP-based Firewall Policy
- Content Filtering
  - Application, URL, DNS Keyword, Web Features, Web Category*
- DoS Attack Defence
- Spoofing Defence

Operating Requirements
- Power
  - AC 100~240V, 50/60Hz
- Max.Power Consumption
  - 35 watts
- Operating Temperature
  - 0 to 45 °C
- Storage Temperature
  - -10 to 55 °C
- Operating Humidity (non-condensing)
  - 10 to 90%

Physical Specifications
- Dimension
  - 443 mm x 285 mm x 45 mm
- Weight
  - 3.76 kg
- Rack Mountable: Mounting Kit Included, 1U Rack Height

Box Contents
- Vigor 3912 series router
- Quick Start Guide
- Cat-5e RJ-45 Network Cable
- Rackmount Kit
- RJ-45 to RS-232 Adapter
- Silver RJ-45 Serial Cable
- IEC C13 Power Cord

ROHS, UKCA & CE Complaint
Warranty:
- Standard: Two (2) Year, RTB
- VigorCare Extended Warranty
  - VigorCare D3 3 Year Subscription: VCARE-D3
  - VigorCare D5 5 Year Subscription: VCARE-D5

*Subscription required