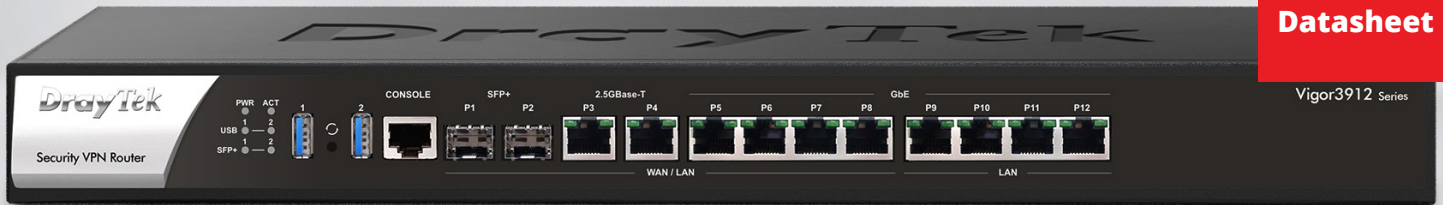


Vigor 3912S

12.5Gb Enterprise Grade High-Performance VPN Router with 256GB SSD for hosting Docker Linux applications

Datasheet



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. The Vigor 3912S model has a 256GB SSD, enabling you to install Docker-compatible applications such as the VigorConnect management platform, or the Suricata Intrusion Detection System (IDS)

Key Features & Benefits

Powerful Enterprise Internet Gateway

Featuring a Quad-Core Processor, the Vigor 3912S 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 5Gb/s IPsec throughput and supporting 500 simultaneous VPN links.

Benefits: Affordably optimise remote working with no bottlenecks.

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.

Suricata Intrusion Detection System

Optionally install Suricata service to enable IDS functionality to help protect your network from threats.

Benefits: Enhanced network security with IDS protection.

Host Docker Linux Applications

The built-in 256GB SSD and 8GB DDR4 RAM enable Linux applications to be installed via docker. Suricata, VigorConnect or any compatible docker based application can be installed.

Benefits: Install Linux applications to use on your network

Key Specification

- Multi-WAN Router with over 12Gbps NAT Throughput
- Suricata-based Intrusion Detection System – **New!**
- 8x WAN/LAN Switchable Ports & 4x fixed Ethernet LAN Ports
- 2x 10GbE SFP+ and 2x 2.5GbE for WAN/LAN
- Up to 5Gbps Total IPSec VPN Throughput
- Up to 3.5Gbps Total SSL 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)
- 256GB SSD and 8GB DDR4 for hosting Docker Linux applications
- SPI Firewall and Content Filtering
- Optional VigorCare Available
- Compatible with VigorACS Central Management Platform

Vigor 3912 Series Router Models

UK Product Code	EAN	Product Name	Product Description
V3912S-K	4710484746627	Vigor 3912S (UK/IE)	Vigor 3912S VPN Enterprise Router with 256GB SSD for hosting docker Linux applications
V3912-K	4710484747013	Vig Vigor 3912 (UK/IE)	Vigor 3912 VPN Enterprise Router

Note: Vigor 3912S includes 256GB SSD capability. The non-S variant, the Vigor 3912 does not include an SSD and is not upgradable.

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

Storage

- 256GB SSD Drive (built-in)

Virtual Machine Server

- Install applications via Docker
 - VigorConnect
 - Suricata
 - Other Docker-compatible applications

Performance

- 12.5Gb/s NAT Throughput
- 5Gb/s IPSec VPN Performance
- 3.5Gb/s SSL VPN Performance
- 900Mb/s WireGuard 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
- 802.1q 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

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 – **New!**
 - 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

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)

VPN

- Up to 500 active VPN tunnels - including up to 200 SSL VPN or OpenVPN 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-521, SHA-256, SHA-1, 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, Server Load Balance, Fast NAT, Port Knocking – **New!**
- ALG (Application Layer Gateway)
 - SIP, RTSP, FTP, H.323
- VPN Pass-Through
 - PPTP, L2TP, IPsec
- IP-based Firewall Policy
- User-based Firewall Policy (with Data and Time Quota Management)
- Content Filtering
 - Application
 - URL Filtering
 - DNS Keyword
 - Web Category - Includes free 30-day trial (subscription required: Group S, URLR-S, 4.3.2.5 or later firmware)
- DoS Attack Defence
- Spoofing Defence

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

Physical Specifications

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

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
- Pre-installed VigorConnect Management up to 100 Nodes

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%

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 Compliant Warranty:

- Standard: Two (2) Year, RTB
- Software security updates:
- 3 years after the EOL notification. Please note that this only applies to products sold in the UK
- VigorCare Extended Warranty
 - VigorCare D3 3 Year Subscription: VCARE-D3
 - VigorCare D5 5 Year Subscription: VCARE-D5