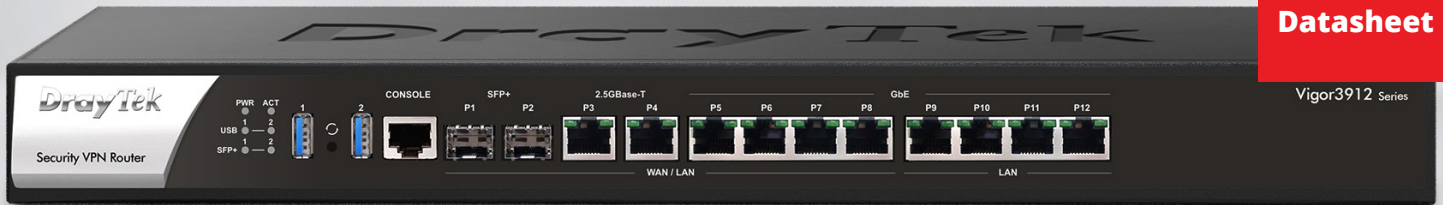


# Vigor 3912S

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