

# Vigor 2927 series

**DrayTek**

The Ideal VPN Router for Small Business and Remote Working

Premium. Reliable. Affordable.

Datasheet



## Product Overview

The DrayTek Vigor 2927 series Dual-WAN Load Balancing Firewall VPN routers allow you to make the most of FTTP Fibre Broadband with Gigabit WAN throughput, extensive Firewall, Content Filtering, VPN client/server and Quality of Service controls.

Along with model options for fast WiFi and integrated 4G/LTE modem to take advantage of mobile broadband, the Vigor 2927 series provides a reliable, flexible, and secure network solution, that's ideal for Small Business and Home Offices.

## Key Features & Benefits

### Dual Gigabit WAN Load Balancer

Make full use of Fibre Broadband with the Vigor 2927's Gigabit throughput per-WAN. Up to 1.8Gbps total combined throughput with Firewall, Content Filtering and Quality of Service.

**Benefits:** Unleash the full potential of Fibre broadband. High speed, Gigabit CPE with flexible application.

### Ideal VPN Router for SMB

Provide fast and secure VPN access, with up to 50 VPN tunnels. Enabling remote workers to access network resources and connecting remote sites. With DrayTek SSL VPN and OpenVPN support.

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

### Dual-SIM 4G+ LTE Modem

Provide ultra-reliable connectivity with an integrated 4G+/LTE modem on 'L' models. Get the best out of 4G Broadband with LTE Category 6. Handle Mobile network outages with Dual-SIM Failover.

**Benefits:** High speed Mobile Broadband. Ensure constant connectivity.

### 5+1 Gigabit LAN Ports

Attach Computers, Servers and Network Attached Storage directly, with up to 6 Gigabit LAN ports. Use VLANs to supply Broadband & VPN connectivity to as many as 8 separate networks.

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

### Packed with Features

Take advantage of DrayTek's rich feature set and useful functionality such as Quality of Service, Route Policy, Hotspot Web Portal, VPN Matcher, DrayDDNS and more.

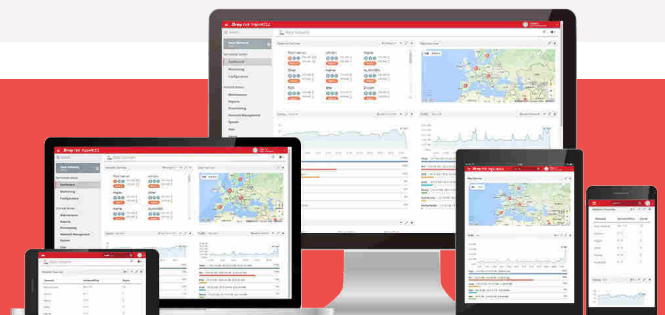
**Benefits:** Advanced DrayTek router functionality.

### Designed for Centralised Management

Configure and manage the Vigor 2927 series remotely through the VigorACS central management platform.

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

Compatible with VigorACS Centralised Management Platform



## Key Specification

- Dual-WAN Gigabit Ethernet WAN Router with Load Balancing & Failover
- Up to 950Mbps Throughput per WAN interface, 1800Mbps in total
- Up to 300Mbps IPsec VPN Throughput
- 50 LAN-to-LAN & Remote Teleworker VPN Tunnels
- 25 DrayTek SSL VPN or OpenVPN Tunnels
- 5+1 x Gigabit RJ-45 LAN Ports
- 4G/LTE with dual-SIMs for second backup telco ('L' models)
- AC1300 - 11ac 'Wave 2' Dual Band Wireless ('ac' models)
- 8 LAN Subnets with VLANs (Port-based / 802.1q)
- SPI Firewall and Content Filtering
- Optional VigorCare Available
- Compatible with VigorACS central management platform



## Technical Specification (UK Hardware Spec.)

### Physical Interfaces

- WAN Ports: 1x Gigabit Ethernet (1G/100M/10M), RJ-45
- LAN Ports: 5x Gigabit Ethernet (1G/100M/10M), RJ-45
- WAN/LAN Switchable Port: 1x Gigabit Ethernet (1G/100M/10M), RJ-45
- 2x USB 2.0 Ports for 3G/4G Modem, thermometer or Printer or 1x USB 2.0 Port ('L' models)
- 2x Removable Wireless antennas (wireless models)
- 2x Removable 4G/LTE Wireless antennas ('L' models)
- Wireless On / Off / WPS button
- Recessed Factory Reset button

### Performance

- NAT Performance:
  - 950 Mb/s NAT Throughput for Single WAN with Hardware Acceleration
  - 1.8Gb/s Total NAT Throughput for Dual WAN with Hardware Acceleration
  - 800 Mb/s NAT Throughput per WAN
  - 60,000 NAT Sessions
- VPN Performance:
  - 300 Mb/s IPsec (AES256) VPN Performance
  - 800 Mb/s Hardware Accelerated IPsec VPN Performance (requires f/w 4.2.1)
  - 120 Mb/s SSL VPN Performance
  - Max. 50 Concurrent VPN Tunnels
  - Max. 25 Concurrent SSL VPN / OpenVPN Tunnels

### WAN Interfaces

- WAN1: Gigabit Ethernet
- WAN2: Gigabit Ethernet
- WAN3: 2.4GHz Wireless WAN ('ac' models)
- WAN4: 5GHz Wireless WAN ('ac' models)
- WAN5: 4G/LTE USB Modem (not included) or Integrated 4G/LTE Category 6 Modem ('L' models only)
- WAN6: 4G/LTE USB Modem (not included)

### Internet connection

- Load Balancing: IP-based, Session-based
- Hardware Acceleration
- 802.1p/q Multi-VLAN Tagging
- Multi-VLAN/PVC
- 2.4GHz & 5GHz Simultaneous Wireless WAN ('ac' models only)
- 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 - **New!**
- Full Feature-set Hardware Acceleration (requires f/w 4.2.1):
  - Hardware Accelerated Quality of Service
  - Multi-WAN Data Budget
  - Traffic Graph & Data Flow Monitor
  - Bandwidth Limit

- IPv4 Connection Types: PPPoE, DHCP, Static IP, PPTP/L2TP
- IPv6 Connection Types:
  - Ethernet: PPP, DHCPv6, Static IPv6, TSPC, AICCU, 6rd, 6in4 Static Tunnel
  - 4G/LTE Modem & USB 4G/LTE Modem: TSPC, AICCU

### Integrated 4G LTE Modem Features ('L' models)

- Dual-SIM Failover
- 4G LTE Category 6 Modem with fallback to 3G / GPRS
- Unlocked to any network (BT, EE, 3, O2, Vodafone, Eircom)
- 4G LTE Max Data Rates:
  - 300Mbps Downlink (Category 6)
  - 50Mbps Uplink (Category 6)
- 4G LTE (FDD) Bands: 1, 3, 5, 7, 8, 20, 28, 32
- 4G LTE (TDD) Bands: 38, 40, 41
- 3G (WCDMA/HSPA+/UMTS) Bands: 1, 3, 5, 8
- 2x LTE Antennas included with 1m extension cables
- Per-SIM-Card WAN Data Budget
- 2x Standard-Size SIM-Card Slots
- Removable SIM slot cover
- SMS Inbox - Send & Receive SMS text messages
- SMS Router Commands - Status Report, Reboot via text message
- LTE Bridge - **New!**

### Wireless Features ('ac' models)

- AC1300 - 11ac 'Wave 2' Dual Band Wireless ('ac' models):
  - 802.11ac 2x2 wireless access point
  - Compatible with 802.11a/b/g/n wireless
  - Dual-band (2.4/5GHz) simultaneous wireless
  - Up to 866Mbps PHY rate at 80MHz with 5GHz
  - Up to 400Mbps PHY rate at 40MHz with 2.4GHz
  - Channel Bandwidth: 20/40MHz for 2.4GHz, 20/40/80MHz for 5GHz
  - MU-MIMO
  - Tx Beamforming
- Mesh Root support with DrayTek VigorAP Mesh Nodes - **New!** (requires f/w 4.2.2)
- 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

## Technical Specification (UK Hardware Spec.) (cont.)

### Wireless Features ('ac' models) (cont.)

- Wireless Security:
  - WPA2
  - WPA3 – **New!** (requires f/w 4.2.2)
  - Pre-Shared Key authentication
  - Enterprise 802.1x authentication
  - WEP/WPA for Legacy Clients
  - Access Control – Blacklist / Whitelist client MAC addresses per SSID

### Firewall & Content Filtering

- IP-based or User-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 (requires GlobalView subscription)

### NAT Features

- 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

### NAT Features

- Auto Configuration
- 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

### LAN Management

- 802.1q Tag-based, Port-based VLAN
- Up to 8 LAN Subnets (NAT or Routing mode selectable per LAN interface)
- Up to 16 VLANs
- DMZ Port
- DHCP Server:
  - Multiple IP Subnet
    - Custom DHCP Options
    - Bind-IP-to-MAC
    - DHCP Pool Count up to 1022 addresses for LANs 1-3
    - DHCP Pool Count up to 253 addresses for LANs 4-8
- LAN IP Alias
- Wired 802.1x Port Authentication
- Port Mirroring
- Local DNS Server
- Conditional DNS Forwarding
- Hotspot Web Portal
- Hotspot Authentication: Click-Through, Social Login, SMS PIN, Voucher

### Networking Features

- Policy-based Routing: Protocol, IP Address, Port, Domain/Hostname, Country
- High Availability: Active-Standby, Hot-Standby
- DNS Security (DNSSEC)
- Local RADIUS server

- SMB File Sharing (Requires external storage)
- Multicast: IGMP Proxy, IGMP Snooping & Fast Leave, Bonjour
- Routing Features: IPv4 & IPv6 Static Routing, Inter-VLAN Routing,

### VPN

- Up to 50 active VPN tunnels - including up to 25 SSL VPN or OpenVPN Tunnels
- Up to 16 Hardware Accelerated 800Mb/s IPsec tunnels – **New!** (requires f/w 4.2.1)
- 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
- IKE Authentication: Pre-Shared Key and Digital Signature (X.509)
- Encryption: MPPE, DES, 3DES, AES (128/192/256)
- Authentication: SHA-256, SHA-1
- VPN Trunk (Redundancy): Load Balancing, Failover
- 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
  - GRE over IPsec
  - PPTP
  - L2TP, L2TP over IPsec

### 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

### Operating Requirements

- Rack Mountable (Optional Vigor RM1 mounting bracket required)
- Wall Mountable
- Temperature Operating: 0 °C ~ 45 °C
- Storage: -25 °C ~ 70 °C
- Humidity 10% ~ 90% (non-condensing)
- Power Consumption:
  - 24 watts ('ac' model)
  - Operating Power: DC 12V (via external PSU, supplied)
- Dimensions:
  - 241mm Width
  - 165mm Depth
  - 44mm Height
- Weight: 630g (ac model)
- Warranty : Two (2) Years RTB
- Power Requirements : 220-240VAC

### Box Contents

- Vigor 2927 series router
- Quick Start Guide
- Screws & wall plugs for wall mounting
- 2m Cat-5e RJ-45 Network Cable
- 2x Detachable Wireless LAN Antennas ('ac' models)
- 2x Detachable LTE Antennas ('L' models)
- 2x 1m LTE Extension Base ('L' models)
- DC 12V Power Supply with UK Plug

## Vigor 2927 series Router Models

UK Product code	EAN	Product name	Product description
V2927-K	4710484741288	Vigor 2927 UK/IE	Vigor 2927 wired router
V2927AC-K	4710484741486	Vigor 2927ac UK/IE	Vigor 2927ac router with 11ac AC1300 wireless
V2927LAC-K	4710484742018	Vigor 2927Lac UK/IE	Vigor 2927Lac router with 11ac AC1300 wireless and integrated 4G/LTE modem

## Features:



- 1 LED Status Indicators
- 2 USB 2.0 Ports
- 3 1GbE RJ-45 WAN Port
- 4 1GbE RJ-45 LAN/WANPort
- 5 5x 1GbE RJ-45 LAN Ports
- 6 2x Wireless Antenna ('ac' models)
- 7 2x LTE Antenna ('L' models)
- 8 2x SIM Card Slots ('L' models)