Vigor 2927LAX 5G

5G Dual Ethernet Gigabit WAN WiFi 6 Router

Datasheet

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Product Overview

The DrayTek Vigor 2927Lax 5G router is a top choice for SMEs looking for high-performance networking solutions. With its 5G/LTE module, Wi-Fi 6 capabilities, and enhanced firewall features, it offers lightning-fast speeds and secure connections. The router also supports multiple WAN interfaces for increased network accessibility and redundancy, making it a reliable choice for businesses.

This router comes equipped with Multi-WAN Load Balancing Firewall and VPN server/client protocols like IPSec, OpenVPN and WireGuard. With flexible Internet connectivity options for FTTP Fibre Broadband and 5G mobile networks, users can enjoy fast and secure connections. The Wi-Fi 6 module further enhances wireless speeds and safety, providing a reliable network solution for businesses.

Key Features & Benefits

5G/LTE Router with dual sim slot

Integrated 5G/LTE modem on '5G' models supporting LTE Category 19. Unlocked to any network. Backward compatible with 4G/LTE

Benefits: **Faster 5G/LTE Mobile Broadband. Ensure constant connectivity.**

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 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 and Gigabit CPE with flexible application.**

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 the quality of service for private and guest data traffic. Mix fixed and virtual configurations.**

W i-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. It is built with the latest technologies.**

VigorACS SD-WAN Central Management

Manage the Vigor 2927 remotely and utilise DrayTek's powerful SD-WAN features with the VigorACS 3 management platform. Centrally manage & provision whole networks across multiple sites.

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

Key Specification

- Multi-WAN Router with over 12Gbps NAT Throughput
- 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 Gigabit RJ-45 LAN Ports
- 5G / LTE with dual-SIMs for second backup telco ('5G' and 'L' models) – New!
- AX3000 – Wi-Fi 6 Dual Band Wireless ('ax' models)
- 8 LAN Subnets with VLANs (Port-based / 802.1q)
- SPI Firewall and Content Filtering
- Optional VigorCare Available
- Compatible with VigorACS central management platform

Vigor 2927LAX-5G Router Models

UK Product Code	EAN	Product Name	Product Description
V2927LAX-5G-K	4712909127387	Vigor 2927LAX 5G (UK/IE)	Vigor 2927Lax 5G router with Wi-Fi 6 AX3000 wireless and integrated 5G/LTE modem

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
- 1x USB 2.0 Port for an additional LTE Modem, thermometer or Printer
- 2x Removable Wireless LAN antennas
- 4x Removable 5G Wireless antennas
- 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
  - 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
- 5G-NR: Integrated 5G/LTE Modem
- WAN6: LTE USB Modem (not included)

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*

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
- 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
- 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, DHCP, Static IP, PPTP/L2TP
- IPv6 Connection Types:
  - Ethernet: PPP, DHCPv6, Static IPv6, TSPC, AICCU, 6rd, 6in4 Static Tunnel
  - 5G/4G LTE Modem & USB LTE Modem: TSPC, AICCU

Intergrated 5G Modem Features - NEW!

- Dual-SIM Failover
- 5G LTE Category 19 (DL) Modem with fallback to 4G/LTE
- Unlocked to any network (EE, 3, O2, Vodafone, Eir)
- 5G Max Data Rates:
  - NR SA
  - 2.4Gbps Downlink (Category 19)
  - 900Mbps Uplink (Category 18)

  - NR NSA
  - 2.8Gbps Downlink (Category 19)
  - 555Mbps Uplink (Category 18) 5G/4G LTE Modem & USB LTE Modem: TSPC, AICCU
- 5G NR Sub-6 SA Bands: 1, 3, 7, 8, 20, 28, 38, 40, 77, 78
- 5G NR Sub-6 NSA Bands: 1, 3, 7, 8, 20, 28, 38, 40, 77, 78
- 4G LTE (FDD) Bands: 1, 3, 7, 8, 20, 28
- 4G LTE (TDD) Bands: 38, 40
- 3G (WCDMA) Bands: 1, 8
- 4x 5G 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

Wireless Features

- AX3000 Wi-Fi 6 wireless:
  - 802.11ax 2x2 wireless access point
  - Compatible with 802.11a/b/g/n/ac wireless
  - Dual-band (2.4/5Ghz) simultaneous wireless
  - Up to 2400Mbps PHY rate at 160MHz with 5GHz
  - Up to 574Mbps PHY rate at 40MHz with 2.4GHz
  - Channel Bandwidth: 20/40MHz for 2.4GHz, 20/40/80/160MHz for 5GHz
  - OFDMA
  - MU-MIMO
  - Tx Beamforming
  - 1024-QAM
- Mesh Root support with DrayTek VigorAP Mesh Nodes
- 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
  - Enterprise 802.1x authentication
  - WEP/WPA for Legacy Clients
  - Access Control – Blacklist / Whitelist client MAC addresses per SSID

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

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 PIN, RADIUS, External Portal Server

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, RIP v1/v2/ng, BGP

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
- 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 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
- VPN Protocols:
  - IPsec IKEv1, IKEv2, IKEv2 EAP
  - IPsec-XAuth
  - DrayTek SSL VPN
  - OpenVPN
  - WireGuard - New!
  - 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

Management

- Local Service: HTTP, HTTPS, Telnet, SSH, FTP, TR-069
- Config File Export & Import
- Import Config from Vigor 2926
- 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 20 VigorAP access points
  - Switch Management: Up to 10 VigorSwitch network switches
  - VPN Management: Up to 8 Vigor routers
  - DrayTek Mesh: Up to 7 VigorAP access points^

Operating Requirements

- Power Requirements: 100-240VAC
- Power Consumption (Watts, maximum): 31.2W
- Temperature Operating: 0 °C ~ 45 °C
- Storage: -25 °C ~ 70 °C
- Humidity 10% ~ 90% (non-condensing)
- Operating Power: DC 12V (via external PSU, supplied)
- Rack Mountable (Optional Vigor RM1 mounting bracket required)
- Wall Mountable

Physical Specifications

- Dimensions:
  - 241mm Width
  - 165mm Depth
  - 44mm Height
- Weight: 670g ('LAX' model)

Box Contents

- Vigor 2927Lax 5G router
- Quick Start Guide
- Screws & wall plugs for wall mounting
- 2m Cat-5e RJ-45 Network Cable
- 2x Detachable Wireless LAN Antennas
- 4x Detachable LTE Antennas
- 4x 1m LTE Extension Base
- DC 12V Power Supply with UK Plug

RoHS, UKCA & CE Compliant

Warranty:

- Standard: Two (2) Year, RTB
- VigorCare Extended Warranty
  - VigorCare B3 3 Year Subscription: VCARE-B3
  - VigorCare B5 5 Year Subscription: VCARE-B5

*Subscription required
^ - visit the DrayTek Mesh Model Compatibility page for mesh compatibility details

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Specifications, content and product availability are subject to change and may differ from country to country. Actual Performance may vary depending on applications, usage, environment and other factors.
Full specifications are available at https://www.draytek.co.uk