

Draytek Vigor 2865Lac Multi-WAN Firewall VPN Router with AC1300 Wireless and 4G/LTE (V2865LAC-K)



Product Name: Draytek Vigor 2865Lac Multi-WAN Firewall VPN Router with AC1300 Wireless and 4G/LTE (V2865LAC-K)

Manufacturer: Draytek

Model Number: V2865LAC-K

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The DrayTek V2865LAC-K is an AC1300 Wireless and 4G/LTE VDSL Router that provides a reliable, flexible, and secure networking solution, that's ideal for Home Offices, Small Business and Satellite Offices.

DrayTek V2865LAC-K Key Features

- VDSL2 (Superfast Fibre) and Gigabit Ethernet WAN Router
- Multi-WAN Gigabit Performance Router with Load-Balancing & Failover
- Up to 950Mbps Firewall Throughput for Ethernet WAN
- 5+1 Gigabit RJ-45 LAN Ports
- Up to 800Mbps VPN Throughput with IPsec acceleration
- 32 LAN-to-LAN & Remote Teleworker VPN Tunnels
- 16 DrayTek SSL VPN or OpenVPN Tunnels
- 4G/LTE with dual-SIMs for second backup telco (&L'squo;L’ models)
- AC1300 - 11ac &L'squo;Wave 2’ Dual Band Wireless with Mesh (&L'squo;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

DrayTek V2865LAC-K - Technical Specifications

Physical Interfaces:

- WAN1: VDSL2 / VDSL2 35b / ADSL2+, RJ-11
- WAN2/LAN Switchable Port: 1x Gigabit Ethernet (1G/100M/10M), RJ-45
- LAN Ports: 5x 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'squo;L’ models)
- 2x Removable Wireless antennas (wireless models)
- 2x Removable 4G/LTE Wireless antennas (&L'squo;L’ models)
- Wireless On / Off / WPS button
- Recessed Factory Reset button

Performance:

- Router Performance:- 100 Mb/s Max Sync Rate with VDSL2 - 300 Mb/s Max Sync Rate with VDSL2 35b - 950 Mb/s NAT Throughput for Ethernet WAN with Hardware Acceleration - 1.3Gb/s Total Multi-WAN NAT Throughput - 800 Mb/s NAT Throughput per WAN without Hardware Acceleration - 60,000 NAT Sessions
- VPN Performance:- 300 Mb/s IPsec (AES256) VPN Performance - 800 Mb/s Hardware Accelerated IPsec VPN Performance - 130 Mb/s SSL VPN Performance - Max. 32 Concurrent VPN Tunnels - Max. 16 Concurrent SSL VPN / OpenVPN Tunnels

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WAN Interfaces:

- WAN1: VDSL2 / VDSL2 35b / ADSL2+
- WAN2: Gigabit Ethernet
- WAN3: 2.4GHz Wireless WAN (â models)
- WAN4: 5GHz Wireless WAN (â models)
- WAN5: 4G/LTE USB Modem (not included) or Integrated 4G/LTE Category 6 Modem (â 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 (â 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:- Hardware Accelerated Quality of Service - Multi-WAN Data Budget - Traffic Graph & Data Flow Monitor - Bandwidth Limit
- IPv4 Connection Types: PPPoE, PPPoA, MPoA, DHCP, Static IP, PPTP/ L2TP
- IPv6 Connection Types:- DSL & Ethernet: PPP, DHCPv6, Static IPv6, TSPC, AICCU, 6rd, 6in4 Static Tunnel - 4G/LTE Modem & USB 4G/LTE Modem: TSPC, AICCU

VDSL & ADSL Features

- BT Infinity Option 1 & Option 2 Compatible
- Compliant with Openreach SIN 498
- Auto Detection of VDSL and ADSL line modes
- Support for G.INP & Vectoring
- VDSL Standards:- ITU-T G.993.1 VDSL - ITU-T G.993.2, G.997.1 VDSL2 - Band Plan: G.998, G.997 - Annex A, Annex B, Annex C - VDSL2 Profile: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 35b - OLR, UPBO, DPBO Supported - US0 Supported - Loop Diagnostic Mode - DSL Forum WT-114

- ADSL Standards: - ANSI T1.413 Issue2 - ITU-T G.992.1 G.dmt (ADSL) - ITU-T G.992.2 G.lite - ITU-T G.992.3 ADSL2 - ITU-T G.992.5 ADSL2+
- ATM Protocols:- RFC-2684/RFC-1483 Multiple Protocol over AAL5- RFC-2516 PPP over Ethernet - RFC-2364 PPP over AAL5 - Support for RFC4638 for MTU up to 1500

Integrated 4G LTE Modem Features (â 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)

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- 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 (across models)

- AC1300 - 11ac & Wave 2 Dual Band Wireless (across models):- 802.11ac 2x2 wireless access point - 2.4GHz: 2x2 MIMO with 2 dBi Antenna Gain - 5GHz: 2x2 MU-MIMO with 4 dBi Antenna Gain - Backwards 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 (256-QAM) - 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 4.3.0)
- 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 & New! (requires f/w 4.3.0)
- 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

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- 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 Features

- Up to 32 active VPN tunnels - including up to 16 SSL VPN or OpenVPN Tunnels
- Up to 16 Hardware Accelerated 800Mb/s IPsec tunnels & New!
- 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

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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 2862
- 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 & New! (requires f/w 4.3.0)

Operating Requirements

- Rack Mountable (Optional Vigor RM1 mounting bracket required)
- Wall or Shelf Mountable with included fittings
- Temperature Operating: 0 °C ~ 45 °C
- Storage: -25 °C ~ 70 °C
- Humidity 10% ~ 90% (non-condensing)
- Power Consumption: 24 watts maximum (& model)
- Weight: 620g (& model)
- Dimensions: 241mm Width x 165mm Depth x 44mm Height
- Operating Power: DC 12V (via external PSU, supplied)
- Warranty : Two (2) Years RTB
- Power Requirements : 220-240VAC

Box Contents

- Vigor 2865 series router
- Quick Start Guide
- Screws & wall plugs for wall mounting
- 2m Cat-5e RJ-45 Network Cable
- 2x Detachable Wireless LAN Antennas (& models)
- 2x Detachable LTE Antennas (& models)
- 2x 1m LTE Extension Base (& models)
- DC 12V Power Supply with UK Plug

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Price: Â£486.40
