Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)

Product Name: Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)

Manufacturer: -

Model Number: V2865AC-K

Please Note: This model has been discontinued. For an alternative, please see the DrayTek Vigor 2866 AC G.Fast VPN Router.

Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)
The DrayTek V2865AC-K is an AC1300 Wireless VDSL Router that provides a reliable, flexible, and secure networking solution, that’s ideal for Home Offices, Small Business and Satellite Offices.
DrayTek V2865AC-K Key Features

ï¿½ VDSL2 (Superfast Fibre) and Gigabit Ethernet WAN Router
ï¿½ Multi-WAN Gigabit Performance Router with Load-Balancing & Failover
ï¿½ Up to 950Mbps Firewall Throughput for Ethernet WAN
ï¿½ 5+1 Gigabit RJ-45 LAN Ports
ï¿½ Up to 800Mbps VPN Throughput with IPsec acceleration
ï¿½ 32 LAN-to-LAN & Remote Teleworker VPN Tunnels
ï¿½ 16 DrayTek SSL VPN or OpenVPN Tunnels
ï¿½ 4G/LTE with dual-SIMs for second backup telco (‘L’ models)
ï¿½ AC1300 - 11ac ‘Wave 2’ Dual Band Wireless with Mesh (‘ac’ models)
ï¿½ 8 LAN Subnets with VLANs (Port-based / 802.1q)
ï¿½ SPI Firewall and Content Filtering
ï¿½ Optional VigorCare Available
ï¿½ Compatible with VigorACS central management platform

DrayTek V2865AC-K - Technical Specifications
Physical Interfaces:

ï¿½ WAN1: VDSL2 / VDSL2 35b / ADSL2+, RJ-11
ï¿½ WAN2/LAN Switchable Port: 1x Gigabit Ethernet (1G/100M/10M), RJ-45
ï¿½ LAN Ports: 5x Gigabit Ethernet (1G/100M/10M), RJ-45
ï¿½ 2x USB 2.0 Ports for 3G/4G Modem, thermometer or Printer
ï¿½ or 1x USB 2.0 Port (‘L’ models)
ï¿½ 2x Removable Wireless antennas (wireless models)
ï¿½ 2x Removable 4G/LTE Wireless antennas (‘L’ models)
ï¿½ Wireless On / Off / WPS button
ï¿½ Recessed Factory Reset button

Performance:

ï¿½ 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 Mult-WAN NAT Throughput -800 Mb/s NAT Throughput per WAN without Hardware Acceleration -60,000 NAT Sessions
ï¿½ 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

Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)

WAN Interfaces:

ï¿½ WAN1: VDSL2 / VDSL2 35b / ADSL2+
ï¿½ WAN2: Gigabit Ethernet
ï¿½ WAN3: 2.4GHz Wireless WAN (‘ac’ models)
ï¿½ WAN4: 5GHz Wireless WAN (‘ac’ models)
ï¿½ WAN5: 4G/LTE USB Modem (not included)
ï¿½ or Integrated 4G/LTE Category 6 Modem (‘L’ models only)
ï¿½ WAN6: 4G/LTE USB Modem (not included)

Internet Connection:

ï¿½ Load Balancing: IP-based, Session-based
ï¿½ Hardware Acceleration
ï¿½ 802.1p/q Multi-VLAN Tagging
ï¿½ Multi-VLAN/PVC
ï¿½ 2.4GHz & 5GHz Simultaneous Wireless WAN (‘ac’ models only)
ï¿½ WAN Active on Demand: Link Failure, Traffi c Threshold
ï¿½ Connection Detection: PPP, ARP Detect, Ping Detect
ï¿½ WAN Data Budget
ï¿½ Dynamic DNS
ï¿½ DrayDDNS – with automated LetsEncrypt Certifi cates – New!
ï¿½ Full Feature-set Hardware Acceleration:- Hardware Accelerated Quality of Service - Multi-WAN Data Budget - Traffic Graph & Data Flow Monitor - Bandwidth Limit
ï¿½ IPv4 Connection Types: PPPoE, PPPoA, MPoA, DHCP, Static IP, PPTP/ L2TP
ï¿½ 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

ï¿½ BT Infinity Option 1 & Option 2 Compatible
ï¿½ Compliant with Openreach SIN 498
ï¿½ Auto Detection of VDSL and ADSL line modes
ï¿½ Support for G.INP & Vectoring
ï¿½ 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

ï¿½ 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+
ï¿½ 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

Wireless Features (‘ac’ models)

ï¿½ AC1300 - 11ac ‘Wave 2’ Dual Band Wireless (‘ac’ 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 -

Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)

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

ï¿½ Mesh Root support with DrayTek VigorAP Mesh Nodes – New! (requires f/w 4.3.0)

ï¿½ Up to 4 SSIDs per radio band

ï¿½ Extended 5Ghz Band - Channels 36-48, 52-64, 100-140

ï¿½ Wireless Optimisation: Airtime Fairness, AP-Assisted Mobility, Band Steering

ï¿½ Bandwidth Management (Per Station / Per SSID)

ï¿½ WMM (Wireless MultiMedia)

ï¿½ WPS - WiFi Protected Setup

ï¿½ Station Control - Time limited wireless connectivity per Station (e.g. 1 hour)

ï¿½ EAPOL Key Retry - Disable EAPOL Key Retry to protect unpatched WLAN clients from KRACK

Wireless Security

ï¿½ WPA2

ï¿½ WPA3 – New! (requires f/w 4.3.0)

ï¿½ Pre-Shared Key authentication

ï¿½ Enterprise 802.1x authentication

ï¿½ WEP/WPA for Legacy Clients

ï¿½ Access Control – Blacklist / Whitelist client MAC addresses per SSID

Firewall & Content Filtering

ï¿½ IP-based or User-based Firewall Policy

ï¿½ User-based Time Quota

ï¿½ DoS Attack Defence

ï¿½ Spoofing Defence

ï¿½ Content Filtering:- Application Content Filter - URL Content Filter - DNS Keyword Filter - Web Features - Web Category Filter (requires GlobalView subscription)

NAT Features

ï¿½ NAT Port Redirection

ï¿½ Open Ports

ï¿½ Port Triggering

ï¿½ DMZ Host

ï¿½ UPnP

ï¿½ ALG (Application Layer Gateway): SIP, RTSP, FTP, H.323

ï¿½ VPN Pass-Through: PPTP, L2TP, IPsec

LAN Management

ï¿½ 802.1q Tag-based, Port-based VLAN

ï¿½ Up to 8 LAN Subnets (NAT or Routing mode selectable per LAN interface)

ï¿½ Up to 16 VLANs

ï¿½ DMZ Port

ï¿½ 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

ï¿½ LAN IP Alias

ï¿½ Wired 802.1x Port Authentication

Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)

ï¿½ Port Mirroring
ï¿½ Local DNS Server
ï¿½ Conditional DNS Forwarding
ï¿½ Hotspot Web Portal
ï¿½ Hotspot Authentication: Click-Through, Social Login, SMS PIN, Voucher PIN, RADIUS, External Portal Server

Networking Features

ï¿½ Policy-based Routing: Protocol, IP Address, Port, Domain/Hostname, Country
ï¿½ High Availability: Active-Standby, Hot-Standby
ï¿½ DNS Security (DNSSEC)
ï¿½ Local RADIUS server
ï¿½ SMB File Sharing (Requires external storage)
ï¿½ Multicast: IGMP Proxy, IGMP Snooping & Fast Leave, Bonjour
ï¿½ Routing Features: IPv4 & IPv6 Static Routing, Inter-VLAN Routing, RIP v1/v2/ng, BGP

VPN Features

ï¿½ Up to 32 active VPN tunnels - including up to 16 SSL VPN or OpenVPN Tunnels
ï¿½ Up to 16 Hardware Accelerated 800Mb/s IPsec tunnels – New!
ï¿½ LAN-to-LAN - Dial-In VPN Server & Dial-Out VPN Client
ï¿½ Teleworker-to-LAN – Dial-In VPN Server
ï¿½ User Authentication: Local, RADIUS, LDAP, TACACS+, mOTP
ï¿½ IKE Authentication: Pre-Shared Key and Digital Signature (X.509)
ï¿½ Encryption: MPPE, DES, 3DES, AES (128/192/256)
ï¿½ Authentication: SHA-256, SHA-1
ï¿½ VPN Trunk (Redundancy): Load Balancing, Failover
ï¿½ Dead Peer Detection (DPD)
ï¿½ IPsec NAT-Traversal (NAT-T)
ï¿½ Virtual IP Mapping – Resolve VPN IP subnet/range conflicts
ï¿½ DHCP over IPsec
ï¿½ DrayTek VPN Matcher – Connect to a VPN router that’s behind NAT/ CG-NAT - New!
ï¿½ VPN Protocols:- IPsec IKEv1, IKEv2, IKEv2 EAP - IPsec-XAuth - DrayTek SSL VPN - OpenVPN - GRE over IPsec - PPTP - L2TP, L2TP over IPsec

Bandwidth Management

ï¿½ IP-based Bandwidth Limit
ï¿½ IP-based Session Limit
ï¿½ User-based Data Quota
ï¿½ QoS (Quality of Service):- Classify via TOS, DSCP, 802.1p, IP Address, Service Type - 4 Priority Queues - App QoS - VoIP Prioritization

Management

ï¿½ Local Service: HTTP, HTTPS, Telnet, SSH, FTP, TR-069
ï¿½ Config File Export & Import
ï¿½ Import Config from Vigor 2862
ï¿½ Auto Backup Config to USB Storage – New!
ï¿½ Firmware Upgrade via TFTP, HTTP, TR-069
ï¿½ 2-Level Administration Privilege

Draytek Vigor 2865ac AC1300 Wireless VDSL Router (V2865AC-K)

ï¿½ Access Control Features: Access List, Brute Force Protection
ï¿½ Syslog
ï¿½ SMS, E-mail Notification Alert
ï¿½ SNMP: v1, v2c, v3
ï¿½ 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

ï¿½ Rack Mountable (Optional Vigor RM1 mounting bracket required)
ï¿½ Wall or Shelf Mountable with included fittings
ï¿½ Temperature Operating: 0 °C ~ 45 °C
ï¿½ Storage: -25 °C ~ 70 °C
ï¿½ Humidity 10% ~ 90% (non-condensing)
ï¿½ Power Consumption: 24 watts maximum (‘ac’ model)
ï¿½ Weight: 620g (‘ac’ model)
ï¿½ Dimensions: 241mm Width x 165mm Depth x 44mm Height
ï¿½ Operating Power: DC 12V (via external PSU, supplied)
ï¿½ Warranty : Two (2) Years RTB
ï¿½ Power Requirements : 220-240VAC

Box Contents

ï¿½ Vigor 2865 series router
ï¿½ Quick Start Guide
ï¿½ Screws & wall plugs for wall mounting
ï¿½ 2m Cat-5e RJ-45 Network Cable
ï¿½ 2x Detachable Wireless LAN Antennas (‘ac’ models)
ï¿½ 2x Detachable LTE Antennas (‘L’ models)
ï¿½ 2x 1m LTE Extension Base (‘L’ models)
ï¿½ DC 12V Power Supply with UK Plug

Price: £258.30