

## DrayTek Vigor 2860Vac Dual-Band WiFi Router



Product Name: DrayTek Vigor 2860Vac Dual-Band WiFi Router

Manufacturer: -

Model Number: V2860VAC-K

Please Note: The DrayTek V2860VAC-K has been discontinued. For an alternative, we recommend the DrayTek VBX2000AC-K.

### DrayTek Vigor 2860Vac Dual-Band WiFi Router

The DrayTek Vigor 2860Vac Dual-Band WiFi Router is a feature packed business class router that includes VoIP functionality, ADSL/VDSL, and supports for super fast 802.11ac WiFi. This DrayTek Vigor 2860Vac includes all the same features as the 2060n such as VLAN tagging, Gigabit Ethernet, 3G failover and a Six (6) port Gigabit switch and WLAN AP management feature for deployment of multiple access points such as the DrayTek Vigor AP-900.

### DrayTek Vigor 2860Vac Key Features

- Supports VDSL, ADSL, 3G/4G and Ethernet-based Broadband

- VDSL with compatible BT Infinity (FTTC Broadband)

- 802.11ac WiFi 1300Mb/s Total WiFi Capacity (3x433Mb/s)

- Simultaneous Operation with 2.4Ghz (802.11n/b/g)

- Six (6) 10/100/1000 Gigabit Ethernet LAN Switch

- Two (2) FXS ports for VoIP (12 SIP Registrar Accounts)

The DrayTek Vigor 2860Vac features the latest 802.11ac WiFi LAN specification for speeds up to 1300Mbps (5GHz) and 300Mbps (2,4GHz). This DrayTek Vigor 2860Vac includes a WiFi co-processor that provides data processing offload for increased performance, particularly in multi-user environments. It also enables higher performance WDS - Up to 500Mb/s which is particularly useful if forming point-to-point WiFi bridges.

The DrayTek Vigor 2860Vac provides several independent levels of security including encryption (up to WPA2), authentication (802.11x) and methods such as MAC address locking and DHCP fixing to restrict access to authorised users only. The Web interface lets you see how many and which clients are currently connected as well as their current bandwidth usage. An 'instant' block lets you disconnect a WiFi user temporarily in case of query. The WiFi VLAN facility allows you to isolate WiFi clients from each other or from the 'wired' LAN.

This DrayTek Vigor 2860Vac also allows guest access with password protection so that visitors can use your WiFi access, but only with a preset password which you set for them. When the user connects to your WiFi LAN, they are firstly presented with your login screen before any Internet access is permitted. This is in addition to any encryption system you have running.

### DrayTek Vigor 2860Vac - Technical Specifications

#### Physical Interfaces:

- LAN Ports (Switch)

- 6 X Gigabit Ethernet (1000Mb/s) Ports

- Port-Based VLAN (Inclusive/Exclusive Groups)

- 802.1q VLAN Tagging

#### WAN Ports:

- WAN1 : ADSL/VDSL, RJ11

- WAN2 : Gigabit Ethernet (1000Mb/s) Ethernet for load balance and WAN failover

- WAN3 : USB Port for 3G Cellular Modem or Printer

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### VoIP Features:

- Two 'FXS' Phone Ports
- Line Port for connection to analogue (POTS) line
- Automatic phone switch-over for incoming calls on either PSTN or VoIP
- Hotline Facility (Dial preset number when handset lifted)
- Digit-Map facility for LCR selection
- Protocols: SIP, RTP / RTCP
- 12 SIP Registrar Accounts (for up to 12 VoIP providers/Trunks)
- Compatible as remote extensions on DrayTek IP PBXs
- G.168 Line Echo-cancellation
- Automatic Gain Control
- Jitter Buffer ( 125ms )

- DFS/TCP Support, allowing use of all of bands 1 and 2
- High performance - up to 300Mb/s firewall throughput

### Voice Codecs:

- G.711 A / &micro; Law
- G.723.1
- G.726
- G.729 A / B

- VAD / CNG
- Tone Generation: DTMF , Dial , Busy , Ring Back , Call Progress
- DTMF Transmission: In Band / Out Band ( RFC-2833 ) / SIP info
- FAX / Modem Support G.711 Pass-through
- T.38 for FAX
- Supplemental Services (Dependent on ITSP):

- Caller ID
- Call Hold / Retrieve
- Call Waiting
- Call Waiting with Caller ID
- Call Transfer
- Call Forwarding ( Always , On Busy and On No Answer )
- DND (Do not Disturb)
- Call Barring ( Incoming / Outgoing )
- MWI ( Message Waiting Indicator ) ( RFC-3842 )

### Performance:

- Firewall: Up to 200Mb/s
- IPSec VPN: Up to 50Mb/s

## DrayTek Vigor 2860Vac Dual-Band WiFi Router

### ½ ADSL Compatibility:

- ½ ANSI T1.413 Issue2
- ½ ITU-T G.992.1 G.dmt (ADSL)
- ½ ITU-T G.992.2 G.lite
- ½ ITU-T G.992.3 ADSL2
- ½ ITU-T G.992.5 ADSL2+
- ½ Annex L (READSL)
- ½ Annex A
- ½ Annex M
- ½ ANFP Issue 3 Compliant/Certified (for Annex A & Annex M)
- ½ DSL Forum : TR-048/67 & TR-100

### ½ VDSL Compatibility:

- ½ BT Infinity Option 1 & Option 2 Compatible
- ½ BT SIN 498 MCT Approved
- ½ Support for G.INP & Vectoring
- ½ ITU-T VDSL2 G.993.2
- ½ ITU-T G.993.1, G.997.1
- ½ Band Plan: G.998, G.997
- ½ Annex A, Annex B, Annex C
- ½ VDSL2 Profile: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a
- ½ OLR, UPBO, DPBO Supported
- ½ US0 Supported
- ½ Loop Diagnostic Mode
- ½ DSL Forum WT-114

### ½ Load Balance/Failover Features:

- ½ Outbound Policy-Based Load-Balance
- ½ WAN Connection Fail-over
- ½ BoD (Bandwidth on Demand)

### ½ Vigor 2860 ATM Protocols (DSL):

- ½ RFC-2684/RFC-1483 Multiple Protocol over AAL5
- ½ RFC-2516 PPP over Ethernet
- ½ RFC-2364 PPP over AAL5
- ½ PPPoE pass through LAN/WLAN
- ½ PPPoE/PPPoA Relay
- ½ Transparent bridge for MPoA
- ½ Multiple PVC support for Triple Play Applications (up to 8 simultaneous)

### ½ Wireless LAN Features:

- ½ 802.11ac
- ½ Multiple SSID : Create up to 4 virtual wireless LANs (independent or joined)
- ½ Packet Aggregation and Channel Bonding
- ½ Optional Higher Gain or directional aerials available
- ½ Compatible with 802.11b/802.11g/802.11n Standards

## DrayTek Vigor 2860Vac Dual-Band WiFi Router

- ½ Active Client list in Web Interface
- ½ Wireless LAN Isolation (from VLAN groups and wired Ethernet interfaces)
- ½ 64/128-bit WEP Encryption
- ½ WPA/WPA2 Encryption
- ½ Switchable Hidden SSID
- ½ Restricted access list for clients (by MAC address)
- ½ Time Scheduling (WLAN can be disabled at certain times of day)
- ½ Access Point Discovery
- ½ WDS (Wireless Distribution system) for WLAN Bridging and Repeating
- ½ 802.1x Radius Authentication
- ½ Wireless VLAN
- ½ Wireless Rate-Control
- ½ Automatic Power Management
- ½ 802.11e WMM (Wi-Fi Multimedia)

½ WAN Protocols (Ethernet):

- ½ DHCP Client
- ½ Static IP
- ½ PPPoE
- ½ PPTP
- ½ L2TP \*
- ½ BPA

½ Firewall & Security Features:

½ CSM (Content Security Management):

- ½ URL Keyword Filtering - Whitelist or Blacklist specific sites or keywords in URLs
- ½ Block Web sites by category (e.g. Adult, Gambling etc. Subject to subscription)
- ½ Prevent accessing of web sites by using their direct IP address (thus URLs only)
- ½ Blocking automatic download of Java applets and ActiveX controls
- ½ Blocking of web site cookies
- ½ Block http downloads of file types :

- ½ Binary Executable : .EXE / .COM / .BAT / .SCR / .PIF
- ½ Compressed : .ZIP / .SIT / .ARC / .CAB/ .ARJ / .RAR
- ½ Multimedia : .MOV / .MP3 / .MPEG / .MPG / .WMV / .WAV / .RAM / .RA / .RM / .AVI / .AU

- ½ Time Schedules for enabling/disabling the restrictions
- ½ Block P2P (Peer-to-Peer) file sharing programs (e.g. Kazza, WinMX etc. )
- ½ Block Instant Messaging programs (e.g. IRC, MSN/Yahoo Messenger etc.)

- ½ Multi-NAT, DMZ Host
- ½ Port Redirection and Open Port Configuration
- ½ Policy-Based Firewall
- ½ MAC Address Filter
- ½ SPI ( Stateful Packet Inspection ) with new FlowTrack Mechanism
- ½ DoS / DDoS Protection
- ½ IP Address Anti-spoofing
- ½ E-Mail Alert and Logging via Syslog

## DrayTek Vigor 2860Vac Dual-Band WiFi Router

• Bind IP to MAC Address

• Bandwidth Management:

• QoS

• Guaranteed Bandwidth for VoIP

• Class-based Bandwidth Guarantee by User-Defined Traffic Categories

• Layer 2&3 (802.1p & TOS/DCSP)

• DiffServ Code Point Classifying

• 4-level Priority for each Direction (Inbound / Outbound)

• Bandwidth Borrowed

• Temporary (5 minute) Quick Blocking of any LAN Client

• Bandwidth / Session Limitation

• Network/Router Management:

• Web-Based User Interface (HTTP / HTTPS)

• CLI ( Command Line Interface ) / Telnet / SSH

• Administration Access Control

• Configuration Backup / Restore

• Built-in Diagnostic Function

• Firmware Upgrade via TFTP / FTP

• Logging via Syslog

• SNMP v3 Management with MIB-II

• TR-069

• TR-104

• VPN Facilities:

• Up to 32 Concurrent VPN Tunnels (incoming or outgoing)

• Tunneling Protocols: PPTP, IPSec, L2TP, L2TP over IPSec

• IPSec Main and Aggressive modes

• Encryption : MPPE and Hardware-Based AES / DES / 3DES

• Authentication : Hardware-Based MD5 and SHA-1

• IKE Authentication : Pre-shared Key or X.509 Digital Signature

• SSL VPN for teleworkers - Up to 5 simultaneous users. Proxy or tunnel

• LAN-to-LAN & Teleworker-to-LAN connectivity

• DHCP over IPSec

• NAT-Traversal ( NAT-T )

• Dead Peer Detection (DPD)

• VPN Pass-Through

• MOTP (Mobile One Time Password)

• Network Features:

• DHCP Client / Relay / Server

• DHCP Option 66 support

• Dynamic DNS

• NTP Client (Synchronise Router Time)

• Call Scheduling (Enable/Trigger Internet Access by Time)

• RADIUS Client

## DrayTek Vigor 2860Vac Dual-Band WiFi Router

• Microsoft UPnP Support

• Routing Protocols:

• Static Routing

• RIP V2

• 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: 18 Watt Max.

• Dimensions: L240.96 \* W165.07 \* H43.96 ( mm )

• Operating Power: DC 15V (via external PSU, supplied)

• Warranty : Two (2) Years RTB

• Power Requirements : 220-240VAC

**Price: \$331.69**