

Draytek Vigor2820 ADSL/Cable/3G Router Firewall



Product Name: Draytek Vigor2820 ADSL/Cable/3G Router Firewall

Manufacturer: Draytek

Model Number: V2820

Please Note: The Draytek 2820 series has been discontinued. It has been replaced by the 2830 Series.

The Vigor 2820 series is DrayTek's latest premium ADSL and broadband router/firewall family, featuring an entirely new stylish case design and new DrayOS 3 operating system. Packed with features, the Vigor 2820 offers truly comprehensive ADSL connectivity and security.

Compatible with all variants of ADSL (include ADSL Max and ADSL2+) the Vigor 2820 can also be used for cable-modem and leased line applications thanks to its additional WAN port (Ethernet). A Gigabit Ethernet port on the WAN side provides high speed connectivity for your server (or uplink to a larger Ethernet Switch). Security features include content filtering, web application controls and a new object based firewall management system.

Robust & Comprehensive Firewall

As with previous DrayTek firewalls, security is taken seriously on the Vigor 2820 Series. The firewall features measures for protection against attacks including DoS (Denial of Service) attacks, IP-based attacks and access by unauthorised remote systems. Wireless, Ethernet and VPN are also protected by various protection systems (see later). A new DrayTek object-based firewall allows even more setup flexibility than ever, enabling you to create combinations of users, rules and restrictions to suit multi-departmental organisations.

Content control features of the firewall allow you to set restrictions on web site access, blocking download of certain file types, blocking specific web sites, blocking IM/P2P applications or other potentially harmful or wasteful content. Using the Surf Control site categorisations enable you to block whole categories of web sites (e.g. gambling, pornography etc.), subject to subscription.

Dual-WAN Load Balancing & Backup

As well as the primary ADSL interface, the Vigor 2820 features a secondary WAN port for Internet access. This is an Ethernet interface and can connect to a second ADSL modem, cable modem or any other Ethernet-based Internet feed. The secondary interface can be used either for WAN-Backup or load balancing.

WAN-Backup provides contingency (redundancy) in case of your primary ADSL line or ISP suffering temporary outage). Internet Traffic will be temporarily routed via the secondary Internet access.

When normal services are restored to your primary ADSL line, all traffic is switched back to that.

If you don't have ADSL, the Ethernet WAN port can instead be used as your primary/only Internet connection (using NAT) so the same router can be used for either ADSL or Ethernet Internet connections.

The USB port provides an alternative connection method (Firmware Upgradable) for Internet backup by connecting to a compatible USB modem (or cellphone) for access to the high speed 3G cellular networks from UK providers such as Vodafone, Orange, 3 and T-Mobile. If you don't have ADSL at all, the USB/3G access method can be used as your primary/only Internet connection, ideal for temporary locations, mobile applications or where broadband access is not available.

Note : For WAN2 you can use either a Ethernet or USB 3G connection but not both at the same time.

Detailed Specification:

- Physical Interfaces:
- LAN Ports (Switch)
 - 1 X Gigabit Ethernet (1000Mb/s) Ports
 - 3 X Megabit (100Mb/s) Ports
 - Port-Based VLAN (Inclusive/Exclusive Groups)

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- WAN Ports:
- ADSL Port Compliant with:
 - 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+
 - Annex L (RADSL)
 - Annex M
- Secondary WAN Port : 10/100 Base-TX Ethernet for load balance and WAN failover
- USB Port for 3G Cellular Modem or Printer
- VoIP: 2-port FXS Phone Ports (Vigor2820 'V' models only)
- Load Balance/Failover Features:
 - Outbound Policy-Based Load-Balance
 - WAN Connection Fail-over
 - BoD (Bandwidth on Demand)
- Vigor 2820 ATM Protocols (DSL):
 - RFC-2684/RFC-1483 Multiple Protocol over AAL5
 - RFC-2516 PPP over Ethernet
 - RFC-2364 PPP over AAL5
 - PPPoE pass through LAN/WLAN
 - PPPoE/PPPoA Relay
 - Transparent bridge for MPoA
 - Multiple PVC support for Triple Play Applications (up to 8 simultaneous)
- Wireless LAN Features ('n' Models Only):
 - 802.11n Compliant (Draft 2.0)
 - Latest 'MIMO' Technology with three aeras (2T3R)
 - Multiple SSID : Create up to 4 virtual wireless LANs (independent or joined)
 - Packet Aggregation and Channel Bonding
 - Compatible with 802.11b and 802.11g Standards
 - Active Client list in Web Interface
 - Wireless LAN Isolation (from VLAN groups and wired Ethernet interfaces)
 - 64/128-bit WEP Encryption
 - WPA/WPA2 Encryption
 - Switchable Hidden SSID
 - Restricted access list for clients (by MAC address)
 - Time Scheduling (WLAN can be disabled at certain times of day)
 - Access Point Discovery
 - WDS (Wireless Distribution system) for WLAN Bridging and Repeating (Firmware Upgradable)

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- 802.1x Radius Authentication
- Wireless Rate-Control
- Automatic Power Management
- 802.11e WMM (Wi-Fi Multimedia)

• VoIP Features (Vigor2820 'V' Models only):

- Protocols: SIP, RTP / RTCP
- 12 SIP Registrar Accounts (for up to 12 VoIP providers)
- Line port for PSTN Passthrough (integrates POTS line)
- Auto-fallback to PSTN under power/Internet failure
- G.168 Line Echo-cancellation
- Automatic Gain Control
- Jitter Buffer (125ms)
- Voice Codecs:

- G.711 A / µ 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:

- 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)
- Hotline (Dial preset number when handset lifted)

• WAN Protocols (Ethernet):

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

• Firewall & Security Features:

- CSM (Content Security Management):

- URL Keyword Filtering - Whitelist or Blacklist specific sites or keywords in URLs
- Surfcontrol Support - Block Web sites by category (subject to subscription)
- Prevent accessing of web sites by using their direct IP address (thus URLs only)
- Blocking automatic download of Java applets and ActiveX controls
- Blocking of web site cookies
- Block http downloads of file types :

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

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

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

- Bandwidth Management:

- QoS
- Guaranteed Bandwidth for VoIP
- Class-based Bandwidth Guarantee by User-Defined Traffic Categories
- 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 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 and X.509 Digital Signature
- LAN-to-LAN & Teleworker-to-LAN connectivity
- DHCP over IPSec
- NAT-Traversal (NAT-T)
- Dead Peer Detection (DPD)
- VPN Pass-Through

- Network Features:

- DHCP Client / Relay / Server
- Dynamic DNS
- NTP Client (Synchronise Router Time)
- Call Scheduling (Enable/Trigger Internet Access by Time)
- RADIUS Client
- DNS Cache / Proxy
- Microsoft®; UPnP Support

- Routing Protocols:

- Static Routing
- RIP V2

- Operating Requirements:

- Rack Mountable (Optional Vigor 2820 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

Please Enquire
