



# DrayTek

## Vigor2832 Series

ADSL2+ & GbE WAN Load Balancing  
VPN Router

### Product Overview

The Vigor 2832 series (including the Vigor 2832n) is our new router/firewall for ADSL lines. Alternative WAN ports can instead provide connectivity to Ethernet feeds, secondary xDSL modems or a 3G/4G cellular service using a supported USB adaptor. This latest router series includes support for professional features such as VLAN tagging, Gigabit Ethernet built-in WiFi ('n' models).

## Key Features & Benefits

### Integrated ADSL2/2+ Modem

Vigor2832 Series provides DSL WAN interface and built-in ADSL2/2+ modem.

### Firewall & Content Filter

Filter web pages by URL keyword or web category to block access to insecure or inappropriate contents.

### Load Balancing

Maximize throughput and reliability by using multiple Internet connections.

### Bandwidth Management

Prevent one device using all the bandwidth by bandwidth limit policy, session limit policy, and QoS settings.

### VPN (Virtual Private Network)

Build a secure and private tunnel from the LAN of Vigor2832 Series to the remote offices and teleworkers over the Internet.

### Hotspot Web Portal

Market your business and communicate with the guests while offering hospitality WLAN.

### SSL VPN

The VPN works through firewalls providing secure remote access to any network environment.

### DrayDDNS

The free DDNS service for you to access the router by a fixed hostname of your choice.

# Key Specification

4-WAN Simultaneous : ADSL, Ethernet and USB 3G/4G  
Up to two 3G/4G/LTE USB modems can be used  
IPv6 Ready  
802.11n 2.4GHz Wireless LAN (on Vigor 2832n)  
DrayTek Firewall with huge flexibility  
Wireless Guest Portal

Multiple Private LAN Subnets  
SMS (Text Message) Alert via 3rd party server  
VLANs (Port, 802.1q based & Wireless)  
Supports DrayTek SmartMonitor software (30 users)  
Content Filtering (by keyword, data type or category)

## Full Specifications

### Physical Interfaces:

- LAN Ports (Switch)
  - 4 X Gigabit Ethernet (1000Mb/s) Ports
  - Port-Based VLAN (Inclusive/Exclusive Groups)
  - 802.1q VLAN Tagging
- USB Ports:
  - 2x USB 2.0 ports for 3G/4G Modem, Printer, USB storage or USB temperature sensor
- WAN Ports:
  - WAN1 : ADSL, RJ11
  - WAN2 : Gigabit Ethernet (1000Mb/s) Ethernet
  - WAN3 : USB Port for 3G/4G Cellular Modem
  - WAN4 : USB Port for 3G/4G Cellular Modem

### Load Balance/Failover Features:

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

### Performance:

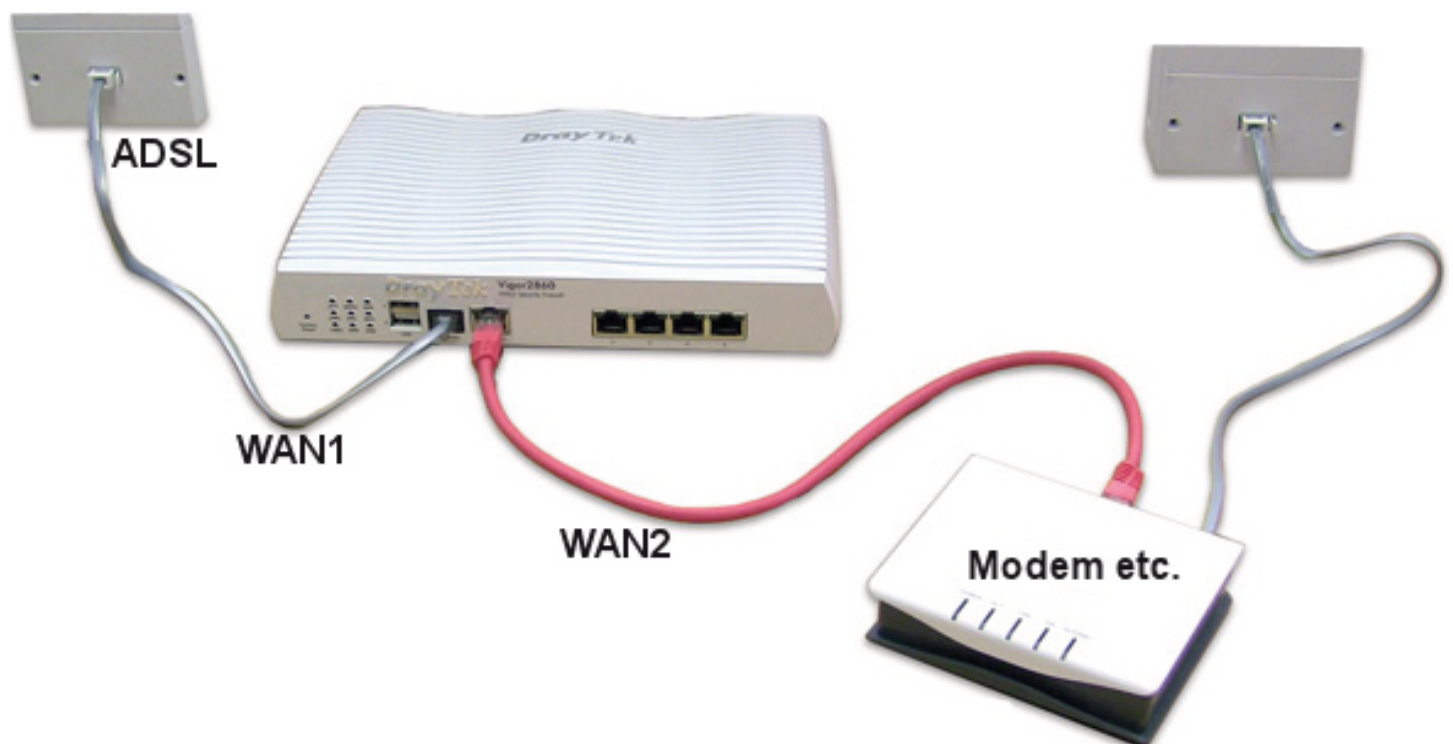
- Firewall: Up to 300Mb/s
- IPSec VPN: Up to 50Mb/s

### ADSL Compatibility:

- 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 (READSL)
- Annex A
- Annex M
- ANFP Issue 3 Compliant/Certified (for Annex A & Annex M)
- DSL Forum : TR-048/67 & TR-100

### 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



# Full Specifications

## Wireless LAN Features ('n' Models Only):

- 802.11n with backward support for 802.11b/g
- 2.4GHz operating frequency (UK channels 1-13)
- Multiple SSID : Create up to 4 virtual wireless LANs (independent or joined)
- Optional Higher Gain or directional aerials available - Click Here.
- 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
- 802.1x Radius Authentication
- Wireless VLAN
- Wireless Rate-Control
- Automatic Power Management
- 802.11e WMM (Wi-Fi Multimedia)

## Bandwidth Management:

- QoS (For devices in the NAT subnet according to source or destination IP)
- 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

## VPN Facilities:

- Up to 32 Concurrent VPN Tunnels (incoming or outgoing)
- Tunneling Protocols:
  - PPTP
  - IPSec
  - L2TP
  - L2TP over IPSec
  - DrayTek SSL
- IPSec Features:
  - Internet Key Exchange : IKEv1 (Main and Aggressive mode) & IKEv2 NEW!
  - Security Protocols : AH mode, ESP mode
  - DiffieHelman (DH) Groups:
    - IKEv1 : 1,2,5,14
    - IKEv2 : 1,2,5,14,19,20,21
- Encryption:
  - DES / 3DES (168bits)
  - AES (128/192/256bits) - Hardware-Accelerated
- Authentication - Hardware-Accelerated:
  - MD5
  - SHA-1
  - SHA-256
- IKE Authentication : Pre-shared Key or X.509 Digital Signature
- DHCP over IPSec
- NAT-Traversal (NAT-T)
- Dead Peer Detection (DPD)
- SSL VPN for teleworkers - Up to 16 simultaneous users. Proxy or tunnel
- LAN-to-LAN & Teleworker-to-LAN connectivity
- MOTP (Mobile One Time Password) for two factor authentication (2FA)
- Virtual IP Mapping, map a remote IP subnet/range to another range to resolve IP subnet/range conflicts
- VPN Pass-Through

## Firewall & Security Features:

- CSM (Content Security Management):
  - URL Keyword Filtering - Whitelist or Blacklist specific sites or keywords in URLs
  - Block Web sites by category (e.g. Adult, Gambling etc. 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 popular P2P (Peer-to-Peer) file sharing programs
- 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

## Network Features:

- DHCP Client / Relay / Server
- DHCP Option 66 support
- Dynamic DNS
- LAN DNS (supports CNAME)
- NTP Client (Synchronise Router Time)
- Call Scheduling (Enable/Trigger Internet Access by Time)
- RADIUS Client
- UPnP Support

## Routing Protocols:

- Static Routing
- RIP V2

## Vigor 2832 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)
- Support for RFC4638 for MTU up to 1500

## 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 12V (via external PSU, supplied)
- Warranty
  - Two (2) Year Manufacturer's RTB
  - Optional VigorCare Enhanced Warranty Available
    - VigorCare B3 3 Year Subscription: VCARE-B3
    - VigorCare B5 5 Year Subscription: VCARE-B5

# Vigor 2832 Series Router Models

UK Product Code	EAN	Product Name	Notes
V2832-K	4716779076509	Vigor 2832 (UK)	Non-wireless model
V2832N-K	4716779076820	Vigor 2832n (UK)	802.11n Wireless