Vigor 166



G.Fast & VDSL2 35b Modem

Premium. Reliable. Affordable.

Datasheet



Product Overview

The Vigor 166 is a G.Fast and VDSL2 35b modem to Ethernet bridge, connecting G.Fast or VDSL to your Ethernet-based Router or Firewall. It provides proven compatibility with UK G.Fast and VDSL2 technologies; extensively tested and tuned to provide a robust and reliable DSL connection.

Key Features & Benefits

G.Fast & VDSL2 35b Capable

Up to 330mbps download and 50mbps upload with G.Fast technology. Can be used with all the latest DSL standards, with Vectoring and 35b SuperVectoring.

Benefits: High performance and great compatibility.

No Setup Needed

Works as a modem with most ISPs, straight out of the box. Pre-Configured to work with most UK ISPs. Just set the username and password on your router.

Benefits: Quick and easy to install.

Two Gigabit LAN Ports

Connect two devices to the Vigor 166 with 2 Gigabit (10/100/1000Mbps) LAN ports. No need to disconnect Ethernet WAN to check connectivity.

Benefits: More convenient cabling for diagnostics.

Full-Bridge Modem and More

Two operation modes for the Vigor 166 allow it to operate as a fully bridged DSL to Ethernet Modem, or as a mini Router with NAT DMZ Host.

Benefits: Extensively configurable to suit any application.

Add DSL connectivity to any Router

Ideal Partner device for DrayTek dual-WAN products or any other vendor's Ethernet WAN firewall. Reports DSL Line Status on DrayTek Vigor routers.

Benefits: Connect any Router or Firewall to G.Fast.

Wall or Shelf Mountable

Can be installed securely on a wall or shelf with screw fixings to hold it in place. Mounting kit included.

Benefits: Flexible and discrete installation.

UK Product Code	EAN	Product Name	Product Description
V166-K	4712909128230	Vigor 166 (UK/IE)	Vigor 166 G.Fast Modem



Key Specification

- G.fast (Ultrafast Fibre) & VDSL2 (Superfast Fibre) to Ethernet Modem
- Bridges DSL to your Router or Firewall
- Pre-Configured to work with most ISPs
- IPv6 and IPv4 Compatible
- Compatible with IPTV and Video on Demand (YouView, Sky Q)
- 2 Gigabit LAN Ports
- Optional VigorCare Available



Technical Specification (UK Hardware Spec.)

Physical Interfaces

- 2 x Gigabit Ethernet (1000Mb/s) Ports WAN1 : G.Fast/VDSL RJ-11
- Recessed Factory Reset button

Performance

- Max G.fast Sync Rate: 1.3Gb/s (dependant on ISP & Exchange max VDSL2 35b Sync Rate: 1.300/s (dependence)
 Max VDSL2 35b Sync Rate: 300Mb/s
 Max VDSL2 17a Sync Rate: 100Mb/s
 Max ADSL2+ Sync Rate: 20Mb/s
 NAT Performance:

- - Firewall: Up to 700Mb/s (940Mb/s with Hardware Acceleration)
 - NAT Sessions: 10,000

WANFeatures

- Pre-Configured with OpenReach network VLAN tag 101 WAN1 Service & Customer (double-tag) VLAN support
- Maximum MTU 1508

G.Fast & DSL Compatibility

- BT Infinity Option 1 & Option 2 Compatible
- Compliant with Openreach SIN 527 & SIN 498 Auto Detection of G.Fast and VDSL line modes Support for G.INP & Vectoring

- G.Fast Standards
 ITU-T G.9700, G.9701 G.Fast
- Profile: 106MHz

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
- USO Supported
- Loop Diagnostic Mode
- DSL Forum WT-114

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

Network Features

DSL Status Display with DrayTek Vigor routers

Management Interfaces

- Web-Based User Interface (HTTP / HTTPS)
- CLI (Command Line Interface) via Web Console, Telnet or SSH
- Configuration Backup / Restoré
- Firmware Upgrade via Web Interface, TFTP

Router mode Firewall & NAT Features

- DMZ Host NAT Port Forwarding
- NAT Port Redirection
- ALG (Application Layer Gateway): SIP, RTSP, FTP, H.323 VPN Pass-Through: PPTP, L2TP, IPsec Object-based IPv4 / IPv6 Firewall
- - MAC Address Filter
- SPI (Stateful Packet Inspection) with FlowTrack Mechanism DoS / DDoS Protection
- IP Address Anti-spoofing
- Bind IP to MAC Address
- DHCP Server
- Static Route & IP Routed Subnet
- **URL Keyword Filtering**
- Dynamic DNS
- IGMP Proxy

Router mode WAN Protocols

- DHCP Client
- Static IP
- PPPOE / PPPOA IPv6: PPP, DHCPv6, Static IPv6, TSPC, AICCU, 6rd, 6in4 Static
- Multi-PVC/VLAN virtual WAN interfaces for Management / IPTV services

Router mode Management Features

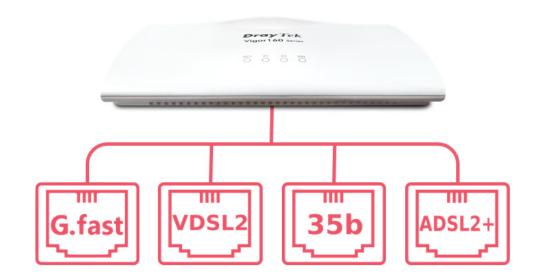
- Syslog SNMP v2 & v3
- VigorACS Management
- TR-069
- TR-104
- NTP Client
- Built-in Diagnostic Function (ping, traceroute)

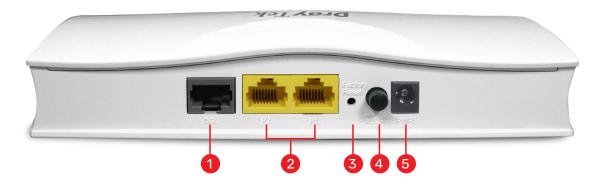
Operating Requirements Wall Mountable</ti>

- Operating Temperature : 0 °C ~ 45 °C Storage Temperature : -25 °C ~ 70 °C Humidity 10% ~ 90% (non-condensing)
- Power Consumption: 6.6 Watt Max.
- Dimensions:
 - Length: 181mm
 - Width: 125mm
 - Height: 40mm
 - Weight: 280g
- Operating Power: DC 12V 1A (via external PSU, supplied)
 Power Requirements : 220-240VAC

- Box ContentsVigor 166 Modem
- Ouick Start Guide RJ-11 DSL Cable
- Cat-5e RJ-45 Cable
- Screws & wall plugs for wall mounting
- DC 12V PSU

ROHS & CE Compliant Warranty: 2 Year Manufacturer's RTB





- 1 1x RJ-11 for G.fast/VDSL2 35b/ADSL2+
- 2 LAN Port: 2x GbE RJ-45
- 3 Reset Button

- 4 Power On/Off Switch
- 5 Power Input