# Vigor 166

### G.Fast & VDSL2 35b Modem

Premium. Reliable. Affordable.





### **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 equipment) 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
- US0 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 ٠

- 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 / Restore
- 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
- Tunnel 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)

## • Wall Mountable

- 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

Warranty: 2 Year Manufacturer's RTB

Specifications, content and product availability are subject to change and may differ from country to country. Actual Performance may vary depending on applications, usage, environment and other factors Full specifications are available at https://www.draytek.co.uk

- Box ContentsVigor 166 Modem
- Quick Start Guide
- RJ-11 DSL Cable

DC 12V PSU **ROHS & CE Compliant** 

Cat-5e RJ-45 Cable Screws & wall plugs for wall mounting





