

# DrayTek

## Vigor2865 Series

VDSL2/ADSL + GbE Dual-WAN VPN Router



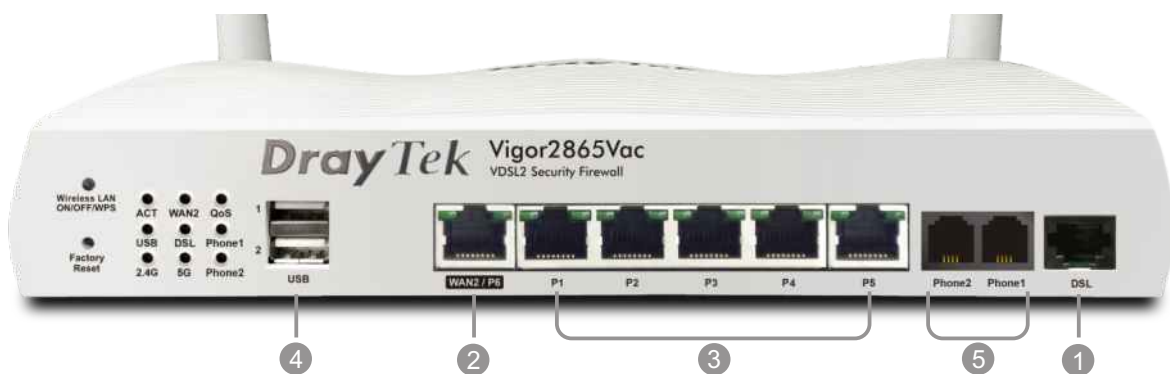
Vigor2865 Series is a VDSL2 35b/ADSL2+ Security Firewall router integrating a DSL modem which is compatible with variants of ADSL and VDSL, including profile 35b supervectoring. There is also a Gigabit Ethernet WAN port for broadband connections to share the traffic load or serve as a failover connection.

VDSL2 35b

Up to 6 WAN

32 VPN

60k Sessions



### Interface

|                           |   |
|---------------------------|---|
| ① Fixed WAN Port          | 1 x RJ-11 for VDSL2 or ADSL2/2+                               |
| ② WAN/LAN Switchable Port | 1 x 10/100/1000Base-TX, RJ-45 (WAN 2 or LAN Port 6)           |
| ③ Fixed LAN Port          | 5 x 10/100/1000Base-TX, RJ-45                                 |
| ④ USB Port                | 2 x USB 2.0 or 1 x USB 2.0 (L model)                          |
| ⑤ VoIP                    | 2 x FXS, RJ-11 (V model)                                      |
| Wi-Fi Antenna             | 2 x External Dipole (wireless model)                          |
| LTE Antenna               | 2 x External Dipole (L model)                                 |
| SIM Slot                  | 2 x Standard-Sized (1 SIM online at a time) (L model)         |
| Button                    | 1 x Factory Reset<br>1 x Wireless On/OFF/WPS (wireless model) |

### Internet Connection

|                              |  |
|------------------------------|--|
| IPv4                         | PPPoE, DHCP, Static IP, PPTP/L2TP                            |
| IPv6                         | PPP, DHCPv6, Static IP, TSPC, AICCU, 6rd, 6in4 Static Tunnel |
| 802.1p/q Multi-VLAN Tagging  | •  |
| Multi-VLAN/PVC               | •  |
| Wireless WAN                 | • (ac model)   |
| 3G/4G/LTE WAN with USB modem | •  |
| Load Balancing               | IP-based, Session-based                                      |
| WAN Active on Demand         | Link Failure, Traffic Threshold                              |
| Connection Detection         | ARP, Ping  |
| WAN Data Budget              | •  |
| Dynamic DNS                  | •  |
| DrayDDNS                     | •  |

## VDSL/ADSL

|                  |                                      |
|------------------|--------------------------------------|
| VDSL Standards   | G.993.2 (VDSL2), G.993.5 (vectoring) |
| VDSL2 Profile    | 8a, 8b, 8c, 8d, 12a, 12b, 17a, 35b   |
| ADSL Standards   | ANSI T1.413, ITU-T G.992.1(G.dmt)    |
| ADSL2 Standards  | ITU-T G.992.3 Annex A/L/M            |
| ADSL2+ Standards | ITU-T G.992.5 Annex A/M              |

## LAN Management

|                             |   |
|-----------------------------|---|
| VLAN                        | 802.1q Tag-based, Port-based  |
| Max. Number of VLAN         | 16  |
| Number of LAN Subnet        | 8   |
| DHCP Server                 | Multiple IP Subnet, Custom DHCP Options, Bind-IP-to-MAC                           |
| LAN IP Alias                | •   |
| Wired 802.1x Authentication | •   |
| Port Mirroring              | •   |
| Local DNS Server            | •   |
| Conditional DNS Forwarding  | •   |
| Hotspot Web Portal          | •   |
| Hotspot Authentication      | Click-Through, Social Login, SMS PIN, Voucher PIN, RADIUS, External Portal Server |

## Networking

|                       |  |
|-----------------------|--|
| Routing               | IPv4 Static Routing, IPv6 Static Routing, Inter-VLAN Routing, RIP, BGP |
| Policy-based Routing  | Protocol, IP Address, Port, Domain, Country                            |
| High Availability     | •  |
| DNS Security (DNSSEC) | •  |
| Multicast             | IGMP Proxy, IGMP Snooping & Fast Leave, Bonjour                        |
| Local RADIUS server   | •  |
| SMB File Sharing      | • (Requires external storage)  |

## Management

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Local Service                    | HTTP, HTTPS, Telnet, SSH, FTP, TR-069 |
| Config File Export & Import      | •                                     |
| Firmware Upgrade                 | TFTP, HTTP, TR-069                    |
| 2-Level Administration Privilege | •                                     |
| Access Control                   | Access List, Brute Force Protection   |
| Notification Alert               | SMS, E-mail                           |
| SNMP                             | v1, v2c, v3                           |
| Syslog                           | •                                     |
| Managed by VigorACS              | •                                     |
| Central VPN Management           | 8 VPN                                 |
| Central AP Management            | 20 VigorAP                            |
| Central Switch Management        | 10 VigorSwitch                        |

## Wireless LAN (Wireless model)

|                  |  |
|------------------|--|
| Number of SSID   | 4 per radio band   |
| Security Mode    | OWE, WEP, WPA, WPA2, Mixed(WPA+WPA2), WPA3                 |
| Authentication   | Pre-Shared Key, 802.1x                                     |
| WPS              | PIN, PBC   |
| WDS              | Bridge, Repeater   |
| Access Control   | Access List, Client Isolation, Hide SSID, Wi-Fi Scheduling |
| AirTime Fairness | •  |
| Band Steering    | • (dual-band model)  |
| MU-MIMO          | • (5G Only) (dual-band model)                              |
| WMM              | •  |

## VPN

|                        |  |
|------------------------|--|
| LAN-to-LAN             | •  |
| Teleworker-to-LAN      | •  |
| Protocols              | PPTP, L2TP, IPsec, L2TP over IPsec, SSL, GRE, IKEv2, IKEv2-EAP, IPsec-XAuth, OpenVPN (Host to LAN) |
| User Authentication    | Local, RADIUS, LDAP, TACACS+, mOTP   |
| IKE Authentication     | Pre-Shared Key, X.509  |
| IPsec Authentication   | SHA-1, SHA-256   |
| Encryption             | MPPE, AES, DES, 3DES   |
| VPN Trunk (Redundancy) | Load Balancing, Failover   |
| Single-Armed VPN       | •  |
| NAT-Traversal (NAT-T)  | •  |
| DrayTek VPN Matcher    | •  |

## Firewall & Content Filtering

|                          |   |
|--------------------------|---|
| NAT                      | Port Redirection, Open Ports, Port Triggering, DMZ Host, UPnP                         |
| ALG                      | SIP, RTSP, FTP, H.323   |
| VPN Pass-Through         | PPTP, L2TP, IPsec   |
| IP-based Firewall Policy | •   |
| Content Filtering        | Application, URL, DNS Keyword, Web Features, Web Category* (*: subscription required) |
| DoS Attack Defense       | •   |
| Spoofing Defense         | •   |

## Bandwidth Management

|                          |  |
|--------------------------|--|
| IP-based Bandwidth Limit | •  |
| IP-based Session Limit   | •  |
| QoS (Quality of Service) | TOS, DSCP, 802.1p, IP Address, Port, Application |
| VoIP Prioritization      | •  |

## LTE (L model)

|                 |   |
|-----------------|---|
| LTE Category    | 6   |
| Max. Data Rate  | 300 Mbps downlink, 50 Mbps uplink   |
| FDD Band        | 1 (2100MHz), 3 (1800MHz), 7 (2600MHz), 8 (900MHz), 20 (800MHz), 28 (700MHz) |
| TDD Band        | 38 (2600MHz), 40 (2300MHz)<br>41 (2540-2640MHz, for Saudi Arabia only)      |
| WCDMA (3G) Band | 1, 8  |
| SMS Gateway     | •   |

For other band availability, please contact your local DrayTek distributor or us.

## VoIP (V model)

|                |   |
|----------------|---|
| Protocol       | SIP, RTP/RTCP, ZRTP                                 |
| SIP Registrars | 12  |
| Dial Plan      | Phone Book, Digit Map, Call Barring, Regional       |
| Call Features  | Call Waiting, Call Transfer, Scheduled DND, Hotline |
| Voice Codec    | G.711 A/u law, G.723.1, G.726, G.729 A/B            |
| Caller ID      | FSK_ETSI, FSK_BELLCORE, DTMF                        |

|                | WLAN    |       | LTE | VoIP |
|----------------|---------|-------|-----|------|
|                | 2.4 GHz | 5 GHz |     |      |
| Vigor2865      |         |       |     |      |
| Vigor2865ac/ax | •       | •     |     |      |
| Vigor2865Lac   | •       | •     | •   |      |
| Vigor2865Vac   | •       | •     |     | •    |