Vigor2928 Series

Multi-WAN Security Router

Quick Start Guide

(for RF Model)

Version: 1.0

Firmware Version: V5.4.0

(For future update, please visit DrayTek web site)

Date: 13 August 2026

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Safety Instructions and Approval

Safety Instructions	● Read the installation guide thoroughly before you set up the router. ● The router is a complicated electronic unit that may be repaired only be authorized and qualified personnel. Do not try to open or repair the router yourself. ● Do not place the router in a damp or humid place, e.g. a bathroom. ● Do not stack the routers. ● The router should be used in a sheltered area, within a temperature range of 0 to +40 Celsius. ● Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources. ● Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards. ● Do not power off the router when saving configurations or firmware upgrades. It may damage the data in a flash. Please disconnect the Internet connection on the router before powering it off when a TR-069/ ACS server manages the router. ● Keep the package out of reach of children. ● When you want to dispose of the router, please follow local regulations on conservation of the environment.
Warranty	We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type Vigor2928 is in compliance with Radio Equipment Directive 2014/53/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU.
The full text of the EU Declaration of Conformity is available at the following internet address:
https://fw.draytek.com.tw/Vigor2928/Document/CE/

Manufacturer: DrayTek Corp.

Address: No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

Product: Vigor2928 Wireless Series

Frequency Information for Europe area:

2.4GHz WLAN	2402MHz - 2482MHz, max. TX power: 19.98dBm *1
5GHz WLAN	5150MHz - 5350MHz, max. TX power: 22.8dBm *2 5470MHz - 5725MHz, max. TX power: 30dBm *2 5725MHz - 5850MHz, max. TX power: 13.9dBm *2
5G-NR	n1[1920-1980 MHz (TX); 2110-2170 MHz (RX)]; n3[1710-1785 MHz (TX); 1805-1880 MHz (RX)]; n7[2500-2570 MHz (TX); 2620-2690 MHz (RX)]; n8[880-915 MHz (TX); 925-960 MHz (RX)]; n20[832-862 MHz (TX); 791-821 MHz (RX)]; n28[703-748 MHz (TX); 758-803 MHz (RX)]; n38[2570-2620 MHz (TX/RX)]; n40[2300-2400 MHz (TX/RX)] ; n77[3300-4200 MHz (TX/RX)] ; n78[3300-3800 MHz (TX/RX)] *4
LTE	B1[1920-1980 MHz (TX); 2110-2170 MHz (RX)]; B3[1710-1785 MHz (TX); 1805-1880 MHz (RX)]; B7[2500-2570 MHz (TX); 2620-2690 MHz (RX)]; B8[880-915 MHz (TX); 925-960 MHz (RX)]; B20[832-862 MHz (TX); 791-821 MHz (RX)]; B28[703-748 MHz (TX); 758-803 MHz (RX)]; B38[2570-2620 MHz (TX); 2570-2620 MHz (RX)]; B40[2300-2400 MHz (TX); 2300-2400 MHz (RX)] *3
3G	B1[1920-1980 MHz (TX); 2110-2170 MHz (RX)]; B8[880-915 MHz (TX); 925-960 MHz (RX)] *3
!	Requirements in AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/HR/UK(NI). 5150MHz~5350MHz is for indoor use only.

(*1: for 2.4GHz WLAN model; *2: for 5GHz WLAN model; *3: for LTE model; *4: for 5G-NR model)

This product is designed for 5G-NR, LTE and 2.4GHz /5GHz WLAN network throughout the EC region.

Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type Vigor2928 is in compliance with the Radio Equipment Regulations 2017 (SI 2017 No.1206, The Electrical Equipment (Safety) Regulations 2016 (SI 2016 No.1101), and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No. 3032).
The full text of the UKCA Declaration of Conformity is available at the following internet address:
https://fw.draytek.com.tw/Vigor2928/Document/CE/

Manufacturer: DrayTek Corp.

Address: No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

Product: Vigor2928 Wireless Series

Importer: UK - CMS Distribution Limited, 15 Worship Street, London, EC2A 2DT

Ireland - CMS Distribution Limited, Bohola Road, Kiltimagh, Co Mayo, Ireland

Frequency Information for UK area:

2.4GHz WLAN	2402MHz - 2482MHz, max. TX power: 19.98dBm *1
5GHz WLAN	5150MHz - 5350MHz, max. TX power: 22.8dBm *2 5470MHz - 5725MHz, max. TX power: 30dBm *2 5725MHz - 5850MHz, max. TX power: 13.9dBm *2
5G-NR	n1[1920-1980 MHz (TX); 2110-2170 MHz (RX)]; n3[1710-1785 MHz (TX); 1805-1880 MHz (RX)]; n7[2500-2570 MHz (TX); 2620-2690 MHz (RX)]; n8[880-915 MHz (TX); 925-960 MHz (RX)]; n20[832-862 MHz (TX); 791-821 MHz (RX)]; n28[703-748 MHz (TX); 758-803 MHz (RX)]; n38[2570-2620 MHz (TX/RX)]; n40[2300-2400 MHz (TX/RX)] ; n77[3300-4200 MHz (TX/RX)] ; n78[3300-3800 MHz (TX/RX)] *4
LTE	B1[1920-1980 MHz (TX); 2110-2170 MHz (RX)]; B3[1710-1785 MHz (TX); 1805-1880 MHz (RX)]; B7[2500-2570 MHz (TX); 2620-2690 MHz (RX)]; B8[880-915 MHz (TX); 925-960 MHz (RX)]; B20[832-862 MHz (TX); 791-821 MHz (RX)]; B28[703-748 MHz (TX); 758-803 MHz (RX)]; B38[2570-2620 MHz (TX); 2570-2620 MHz (RX)]; B40[2300-2400 MHz (TX); 2300-2400 MHz (RX)] *3
3G	B1[1920-1980 MHz (TX); 2110-2170 MHz (RX)]; B8[880-915 MHz (TX); 925-960 MHz (RX)] *3
!	Requirements in UK. 5150MHz~5350MHz is for indoor use only.

(*1: for 2.4GHz WLAN model; *2: for 5GHz WLAN model; *3: for LTE model;*4: for 5G-NR model)

This product is designed for 5G-NR, LTE and 2.4GHz /5GHz WLAN network use in the UK & Ireland.

UK PSTI STATEMENT OF COMPLIANCE

We, DrayTek Corp., office at No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan, declare under our sole responsibility that the product
The full text of the PSTI Declaration of Conformity is available at the following internet address:
https://fw.draytek.com.tw/UK/PSTI/

- Product name: Dual-WAN Security Router
- Model number: Vigor2928be, Vigor2928be-4G, Vigor2928be-5G, Vigor2928-4G, Vigor2928-5G
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

is in conformity with the relevant UK Statutory Instruments: The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 ("Security Requirements").

Standard	Version
The Product Security and Telecommunications Infrastructure Regulations	2023 Schedule 1
Support Period	5 years after the EOS notification

Please note that this statement of compliance, including the Defined Support Period stated herein, is only applicable to products sold in the UK.

This Statement of Compliance is retained by DrayTek for 10 years after date of issue.

Alan Wen

Hsinchu (place)

25th Dec., 2025 (date)

Alan Wen
Chief Executive Officer, CEO
(Legal Signature)

Regulatory Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device may accept any interference received, including interference that may cause undesired operation.

USA Local Representative	Company name	ABP International Inc.		
	Address	13988 Diplomat Drive Suite 180 Dallas TX 75234		
	ZIP Code	75234	E-mail	henry@abptech.com
	Contact Person	Mr. Henry N Castillo	Tel.	(972)831-1600 140

Caution

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

The antenna/transmitter should be kept at least 24 cm away from human body.

This product is an industrial/enterprise-grade networking device. It is designed and marketed for industrial and commercial network environments, and is intended to be installed, configured, and maintained by qualified IT or network professionals.

It is not intended, marketed, or sold for residential or consumer use, and is not designed for end-user self-installation in a residential environment.

External Power Supply ErP Information

*The external power supply used for each product will be model dependent.

		1	2	3	4	5	6	7	8	9	10	11	12
A	Manufacturer	CWT	CWT	CWT	CWT	CWT	APD	APD	APD	APD	MOSO	MOSO	MOSO
B	Address	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	Sangtai Industrial Park, Guanwai Xiaobaimang Songbai Road, Nanshan District, 518108 Shenzhen, Guangdong, China	Sangtai Industrial Park, Guanwai Xiaobaimang Songbai Road, Nanshan District, 518108 Shenzhen, Guangdong, China	Sangtai Industrial Park, Guanwai Xiaobaimang Songbai Road, Nanshan District, 518108 Shenzhen, Guangdong, China
C	Model identifier	2ABB012F UK	2ABB018F UK	2ABL024F UK	2ABL030F UK	2ABN036F UK	WA-12M12FG	WB-18D12FG	WA-24Q12FG	WA-36A12FG	MS-V2000R120-024Q0-GB	MSS-V2500WR120-030E0-GB	V30-V3000R120-036T0-GB
		2ABB012F EU	2ABB018F EU	2ABL024F EU	2ABL030F EU	2ABN036F EU	WA-12M12FK	WB-18D12FK	WA-24Q12FK	WA-36A12FK	MS-V2000R120-024Q0-DE	MSS-V2500WR120-030E0-DE	V30-V3000R120-036T0-DE
D	Input voltage	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V
E	Input AC frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Output voltage DC	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V
F	Output current	1.0A	1.5A	2.0A	2.5A	3.0A	1.0A	1.5A	2.0A	3.0A	2.0A	2.5A	3.0A
G	Output power	12.0W	18.0W	24.0W	30.0W	36.0W	12.0W	18.0W	24.0W	36.0W	24.0W	30.0W	36.0W
H	Average active efficiency	84.9%	86.2%	87.6%	87.8%	89.8%	83.7%	85.4%	88.6%	88.2%	87.8%	89.5%	89.3%
I	Efficiency at low load 10%	73.6%	78.0%	81.3%	83.3%	83.7%	74.5%	80.5%	86.4%	85.4%	85.4%	84.7%	87.7%
J	No-load power consumption	0.07W	0.07W	0.07W	0.07W	0.07W	0.07W	0.10W	0.07W	0.10W	0.10W	0.08W	0.10W

For more update, please visit www.draytek.com.

Table of Contents

1. Package Content.....1

2. Panel Explanation.....2

2.1 Vigor2928be.....2

2.2 Vigor2928be-4G.....5

2.3 Vigor2928be-5G.....8

2.4 Vigor2928-4G.....11

2.5 Vigor2928-5G.....13

3. Hardware Installation 15

3.1 Network Connection.....15

3.2 Wall-Mounted Installation.....16

3.3 Antenna Installation.....17

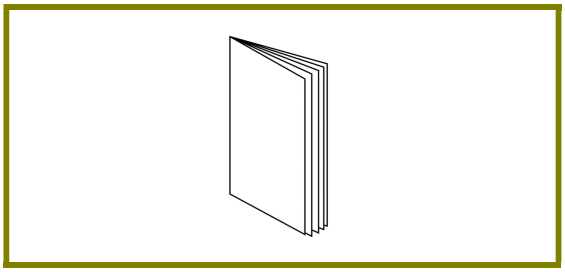
4. Software Configuration 20

5. Customer Service.....22

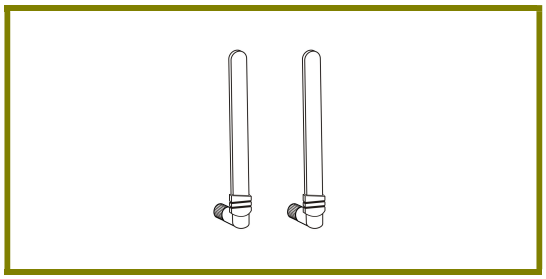
1. Package Content

Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.

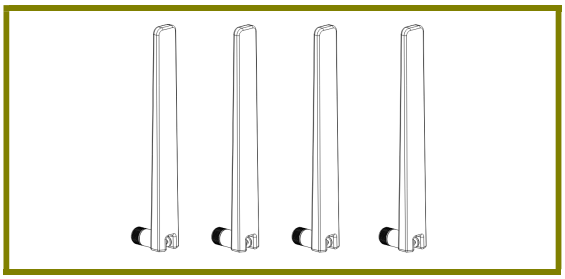
Vigor Router



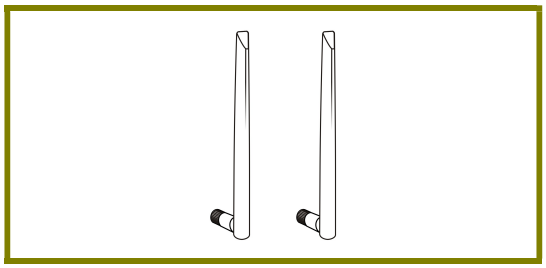
Quick Start Guide



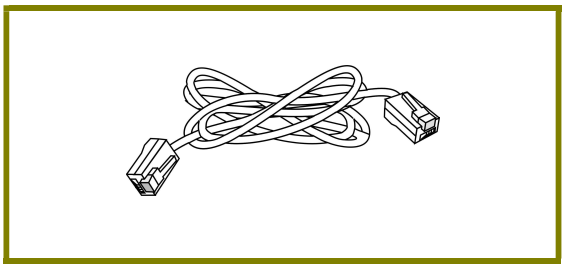
Antenna (4G)



Antenna (5G)

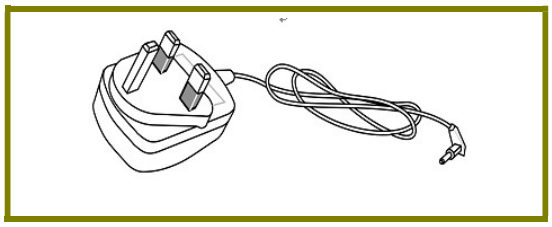


Antenna

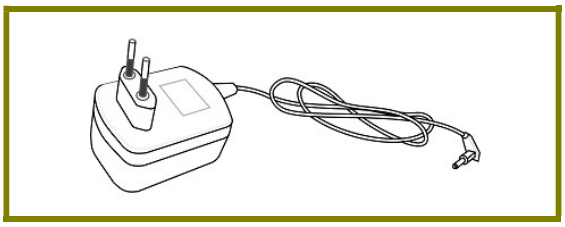


RJ-45 Cable (Ethernet)

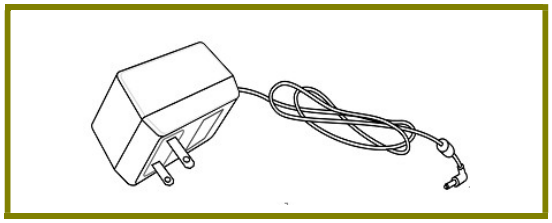
The type of the power adapter depends on the country that the router will be installed.



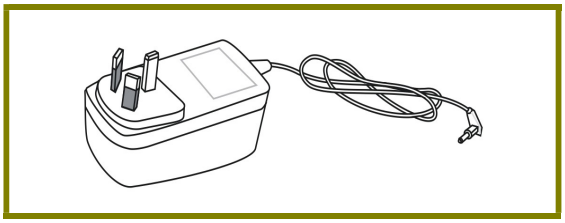
UK-type Power Adapter



EU-type Power Adapter



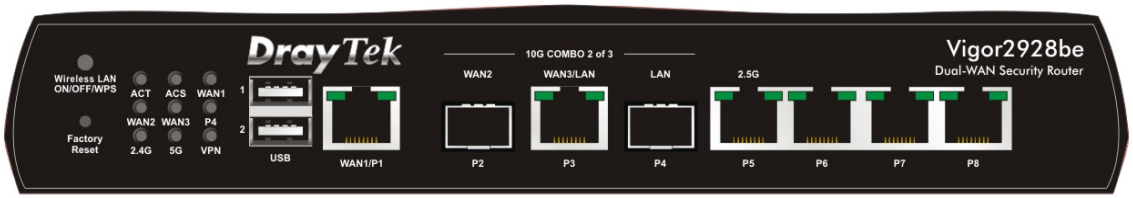
USA/Taiwan-type Power Adapter



AU/NZ-type Power Adapter

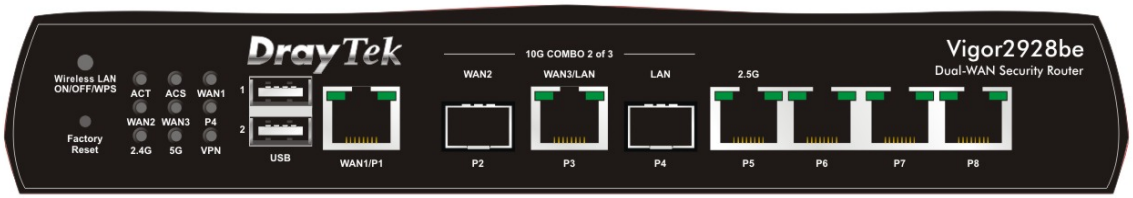
2. Panel Explanation

2.1 Vigor2928be



LED	Status	Explanation
ACT	Off	The router is powered off.
	Blinking	The router is powered on and running normally.
ACS	On	The router has registered and connected to VigorACS server.
	Off	The router has not connected to VigorACS server.
WAN1~3	On	The interface is enabled on Configuration>>WAN Connections.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
P4	On	The LAN port is connected.
	Off	The LAN port is disconnected.
	Blinking	The data is transmitting.
2.4G/5G	On	2.4G/5G: Wireless access point with bandwidth of 2.4GHz/5GHz is ready. WLAN: Wireless access point is ready.
	Off	Wireless function is disabled.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and 2.4GHz/5GHz LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
VPN	On	The VPN tunnel is active.
	Off	VPN services are disabled
	Blinking	Traffic is passing through VPN tunnel.
WAN1/P1		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1000 Mbps.
	Off	The port is connected with 10/100 Mbps.
WAN3/LAN/P3		
Left LED	On	The port is connected.
	Off	The port is disconnected.

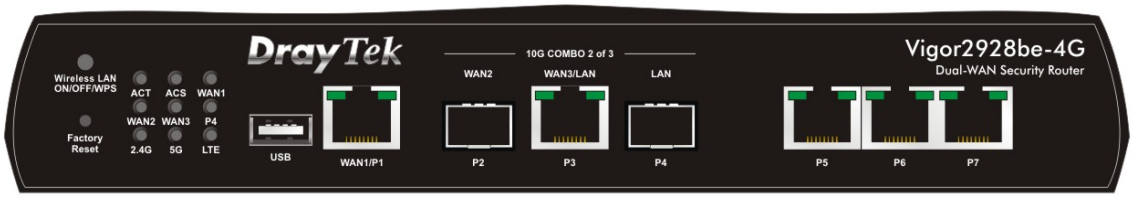
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5/5/10 Gbps.
	Off	The port is connected with 100/1000 Mbps.
LAN P5		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5 Gbps.
	Off	The port is connected with 100/1000 Mbps
LAN P6-P8		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1000 Mbps.
	Off	The port is connected with 10/100 Mbps



Interface	Description
Wireless LAN ON/OFF/WPS	Wireless band will be switched /changed according to the button pressed and released. For example, ● 2.4G (On) and 5G (On) – in default. ● 2.4G (Off) and 5G (On) – pressed and released the button once. ● 2.4G (On) and 5G (Off) – pressed and released the button twice. ● 2.4G (Off) and 5G (Off) – pressed and released the button three times. When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB1~2	Connecter for a USB device (for 3G/4G USB Modem or printer or thermometer).
WAN1 / P1	Connecter for the local network devices or modem for accessing the Internet.

10G COMBO 2 of 3	Select any two ports to be the WAN port (either SPF+ or Ethernet) and the LAN port. In this configuration, P2(SPF+) is designated as the WAN port, and P4(SPF+) is designated as the LAN port. Only P3 is a switchable Ethernet port, which can be used for either WAN or LAN connections. For example, Selecting P2/P3: P2 is WAN2 port; P3 is LAN port. Selecting P3/P4: P3 is WAN3 port; P4 is LAN port. WAN# - Connecter for a modem for accessing the Internet. LAN - Connecter for the local network device.
LAN P5-P8	Connecters for the local network devices. In which, only P5 is available for 2.5G connection.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

2.2 Vigor2928be-4G



LED	Status	Explanation
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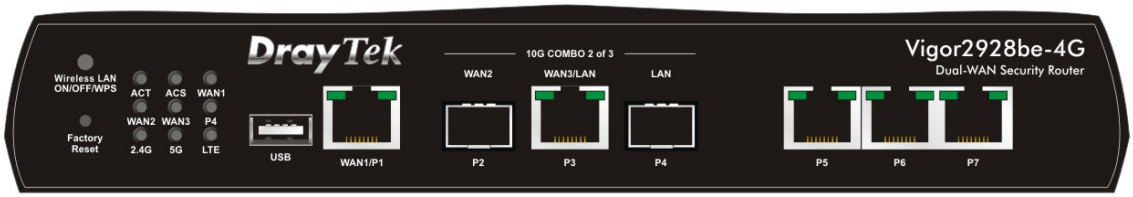
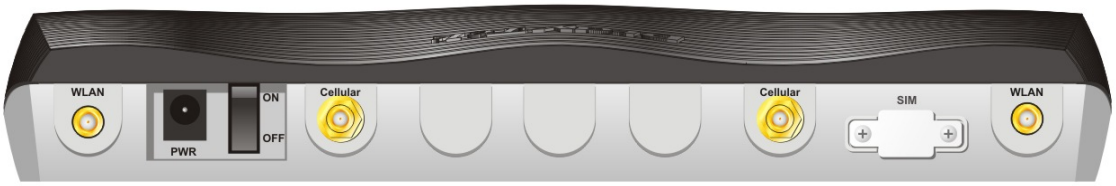
	Blinking	The router is powered on and running normally.
ACS	On	The router has registered and connected to VigorACS server.
	Off	The router has not connected to VigorACS server.
WAN1~3	On	The interface is enabled on Configuration>>WAN Connections.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
P4	On	The LAN port is connected.
	Off	The LAN port is disconnected.
	Blinking	The data is transmitting.
2.4G/5G	On	2.4G/5G: Wireless access point with bandwidth of 2.4GHz/5GHz is ready. WLAN: Wireless access point is ready.
	Off	Wireless function is disabled.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and 2.4GHz/5GHz LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
LTE	On	LTE device is connected and ready for use.
	Off	LTE device is not detected, or has serious problem (e.g., no SIM card, SIM pin error, SIM deactivated, and etc.).
	Blinking	Slowly: LTE device is in dialing up. Quickly: The data is transmitting.
WAN1/P1		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1000 Mbps.
	Off	The port is connected with 10/100 Mbps.
WAN3/LAN/P3		
Left LED	On	The port is connected.
	Off	The port is disconnected.

	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5/5/10 Gbps.
	Off	The port is connected with 100/1000 Mbps.
LAN P5-P7		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5 Gbps.
	Off	The port is connected with 100/1000 Mbps

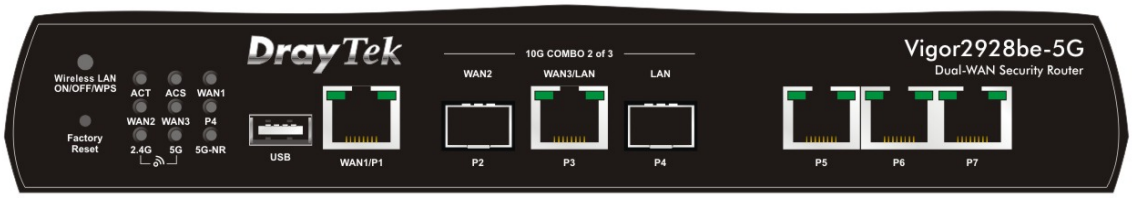




Interface	Description
Wireless LAN ON/OFF/WPS	Wireless band will be switched /changed according to the button pressed and released. For example, ● 2.4G (On) and 5G (On) – in default. ● 2.4G (Off) and 5G (On) – pressed and released the button once. ● 2.4G (On) and 5G (Off) – pressed and released the button twice. ● 2.4G (Off) and 5G (Off) – pressed and released the button three times. When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB	Connecter for a USB device (for 3G/4G USB Modem or printer or thermometer).
WAN1 / P1	Connecter for the local network devices or modem for accessing the Internet.

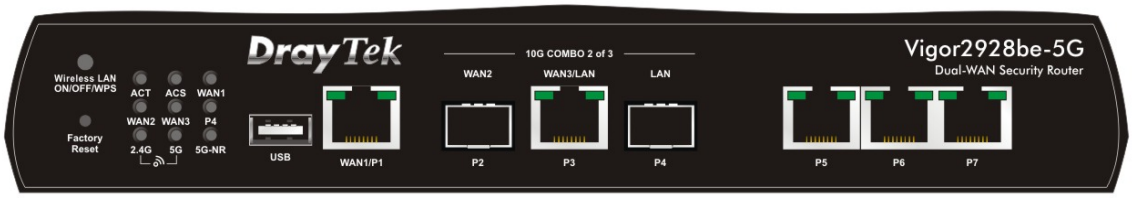
10G COMBO 2 of 3	Select any two ports to be the WAN port (either SPF+ or Ethernet) and the LAN port. In this configuration, P2(SPF+) is designated as the WAN port, and P4(SPF+) is designated as the LAN port. Only P3 is a switchable Ethernet port, which can be used for either WAN or LAN connections. For example, Selecting P2/P3: P2 is WAN2 port; P3 is LAN port. Selecting P3/P4: P3 is WAN3 port; P4 is LAN port. WAN# - Connecter for a modem for accessing the Internet. LAN - Connecter for the local network device.
LAN P5-P7	Connecters for the local network devices.
	Connecter for installing WLAN antennas.
	Connecter for installing antennas for the SIM application.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

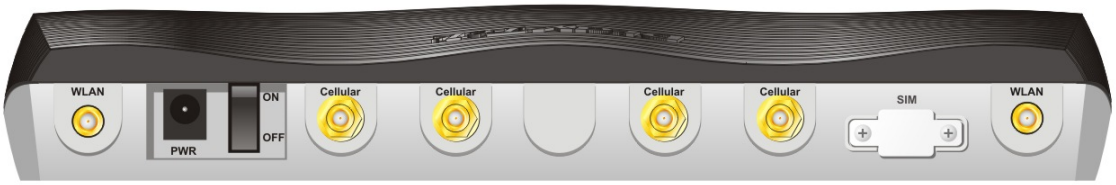
2.3 Vigor2928be-5G



LED	Status	Explanation
ACT	Off	The router is powered off.
	Blinking	The router is powered on and running normally.
ACS	On	The router has registered and connected to VigorACS server.
	Off	The router has not connected to VigorACS server.
WAN1~3	On	The interface is enabled on Configuration>>WAN Connections.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
P4	On	The LAN port is connected.
	Off	The LAN port is disconnected.
	Blinking	The data is transmitting.
2.4G/5G	On	2.4G/5G: Wireless access point with bandwidth of 2.4GHz/5GHz is ready. WLAN: Wireless access point is ready.
	Off	Wireless function is disabled.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and 2.4GHz/5GHz LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
5G-NR	On	5G-NR device is connected and ready for use.
	Off	5G-NR device is not detected, or has serious problem (e.g., no SIM card, SIM pin error, SIM deactivated, and etc.).
	Blinking	Slowly: 5G-NR device is in dialing up. Quickly: The data is transmitting.
WAN1/P1		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1000 Mbps.
	Off	The port is connected with 10/100 Mbps.
WAN3/LAN/P3		
Left LED	On	The port is connected.
	Off	The port is disconnected.

	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5/5/10 Gbps.
	Off	The port is connected with 100/1000 Mbps.
LAN P5-P7		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5 Gbps.
	Off	The port is connected with 100/1000 Mbps

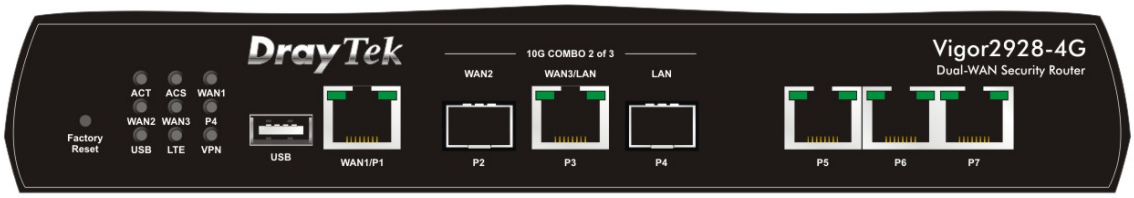




Interface	Description
Wireless LAN ON/OFF/WPS	Wireless band will be switched /changed according to the button pressed and released. For example, ● 2.4G (On) and 5G (On) – in default. ● 2.4G (Off) and 5G (On) – pressed and released the button once. ● 2.4G (On) and 5G (Off) – pressed and released the button twice. ● 2.4G (Off) and 5G (Off) – pressed and released the button three times. When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB	Connecter for a USB device (for 3G/4G USB Modem or printer or thermometer).
WAN1 / P1	Connecter for the local network devices or modem for accessing the Internet.

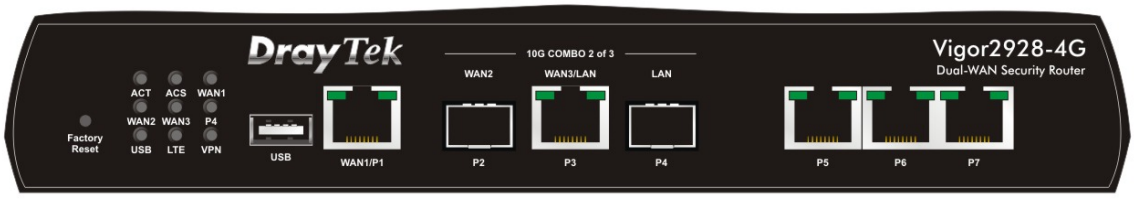
10G COMBO 2 of 3	Select any two ports to be the WAN port (either SPF+ or Ethernet) and the LAN port. In this configuration, P2(SPF+) is designated as the WAN port, and P4(SPF+) is designated as the LAN port. Only P3 is a switchable Ethernet port, which can be used for either WAN or LAN connections. For example, Selecting P2/P3: P2 is WAN2 port; P3 is LAN port. Selecting P3/P4: P3 is WAN3 port; P4 is LAN port. WAN# - Connecter for a modem for accessing the Internet. LAN - Connecter for the local network device.
LAN P5-P7	Connecters for the local network devices.
	Connecter for installing WLAN antennas.
	Connecter for installing antennas for the SIM application.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.
SIM Card	Slots for installing SIM card(s).

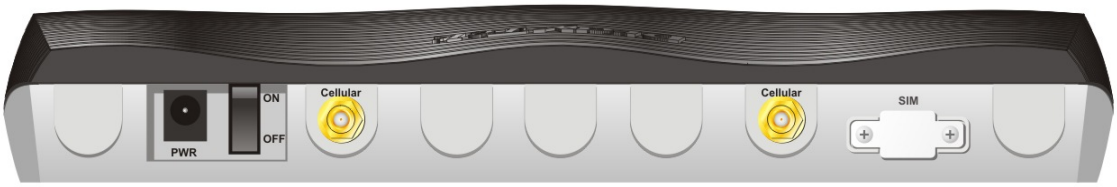
2.4 Vigor2928-4G



LED	Status	Explanation
ACT	Off	The router is powered off.
	Blinking	The router is powered on and running normally.
ACS	On	The router has registered and connected to VigorACS server.
	Off	The router has not connected to VigorACS server.
WAN1~3	On	The interface is enabled on Configuration>>WAN Connections.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
P4	On	The LAN port is connected.
	Off	The LAN port is disconnected.
	Blinking	The data is transmitting.
USB	On	USB device is connected and ready for use.
	Off	No USB device is connected.
	Blinking	The data is transmitting.
LTE	On	LTE device is connected and ready for use.
	Off	LTE device is not detected, or has serious problem (e.g., no SIM card, SIM pin error, SIM deactivated, and etc.).
	Blinking	Slowly: LTE device is in dialing up. Quickly: The data is transmitting.
VPN	On	The VPN tunnel is active.
	Off	VPN services are disabled
	Blinking	Traffic is passing through VPN tunnel.
WAN1/P1		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1000 Mbps.
	Off	The port is connected with 10/100 Mbps.
WAN3/LAN/P3		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5/5/10 Gbps.
	Off	The port is connected with 100/1000 Mbps.

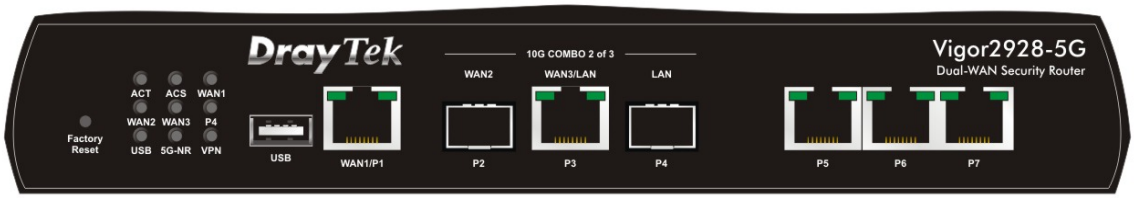
LAN P5-P7		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1 Gbps.
	Off	The port is connected with 100/1000 Mbps





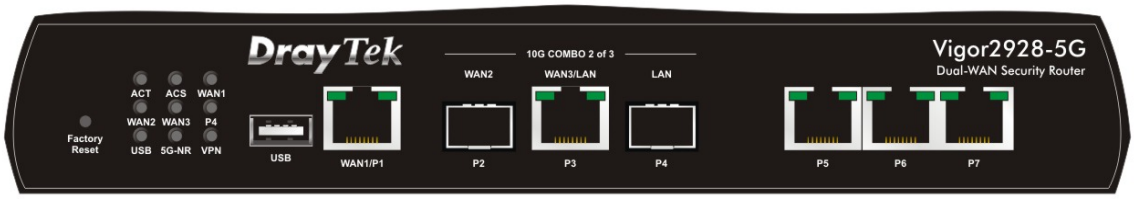
Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB	Connecter for a USB device (for 3G/4G USB Modem or printer or thermometer).
WAN1 / P1	Connecter for the local network devices or modem for accessing the Internet.
10G COMBO 2 of 3	Select any two ports to be the WAN port (either SPF+ or Ethernet) and the LAN port. In this configuration, P2(SPF+) is designated as the WAN port, and P4(SPF+) is designated as the LAN port. Only P3 is a switchable Ethernet port, which can be used for either WAN or LAN connections. For example, Selecting P2/P3: P2 is WAN2 port; P3 is LAN port. Selecting P3/P4: P3 is WAN3 port; P4 is LAN port. WAN# - Connecter for a modem for accessing the Internet. LAN - Connecter for the local network device.
LAN P5-P7	Connecters for the local network devices.
	Connecter for installing antennas for the SIM application.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.
SIM Card	Slots for installing SIM card(s).

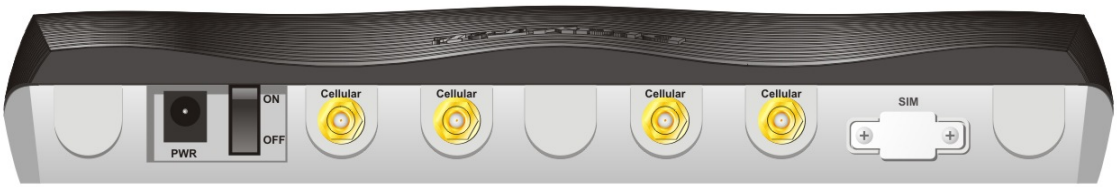
2.5 Vigor2928-5G



LED	Status	Explanation
ACT	Off	The router is powered off.
	Blinking	The router is powered on and running normally.
ACS	On	The router has registered and connected to VigorACS server.
	Off	The router has not connected to VigorACS server.
WAN1~3	On	The interface is enabled on Configuration>>WAN Connections.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
P4	On	The LAN port is connected.
	Off	The LAN port is disconnected.
	Blinking	The data is transmitting.
USB	On	USB device is connected and ready for use.
	Off	No USB device is connected.
	Blinking	The data is transmitting.
5G-NR	On	5G-NR device is connected and ready for use.
	Off	5G-NR device is not detected, or has serious problem (e.g., no SIM card, SIM pin error, SIM deactivated, and etc.).
	Blinking	Slowly: 5G-NR device is in dialing up. Quickly: The data is transmitting.
VPN	On	The VPN tunnel is active.
	Off	VPN services are disabled
	Blinking	Traffic is passing through VPN tunnel.
WAN1/P1		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1000 Mbps.
	Off	The port is connected with 10/100 Mbps.
WAN3/LAN/P3		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 2.5/5/10 Gbps.
	Off	The port is connected with 100/1000 Mbps.

LAN P5-P7		
Left LED	On	The port is connected.
	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 1 Gbps.
	Off	The port is connected with 100/1000 Mbps





Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB	Connecter for a USB device (for 3G/4G USB Modem or printer or thermometer).
WAN1 / P1	Connecter for the local network devices or modem for accessing the Internet.
10G COMBO 2 of 3	Select any two ports to be the WAN port (either SPF+ or Ethernet) and the LAN port. In this configuration, P2(SPF+) is designated as the WAN port, and P4(SPF+) is designated as the LAN port. Only P3 is a switchable Ethernet port, which can be used for either WAN or LAN connections. For example, Selecting P2/P3: P2 is WAN2 port; P3 is LAN port. Selecting P3/P4: P3 is WAN3 port; P4 is LAN port. WAN# - Connecter for a modem for accessing the Internet. LAN - Connecter for the local network device.
LAN P5-P7	Connecters for the local network devices.
	Connecter for installing antennas for the SIM application.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.
SIM Card	Slots for installing SIM card(s).

3. Hardware Installation

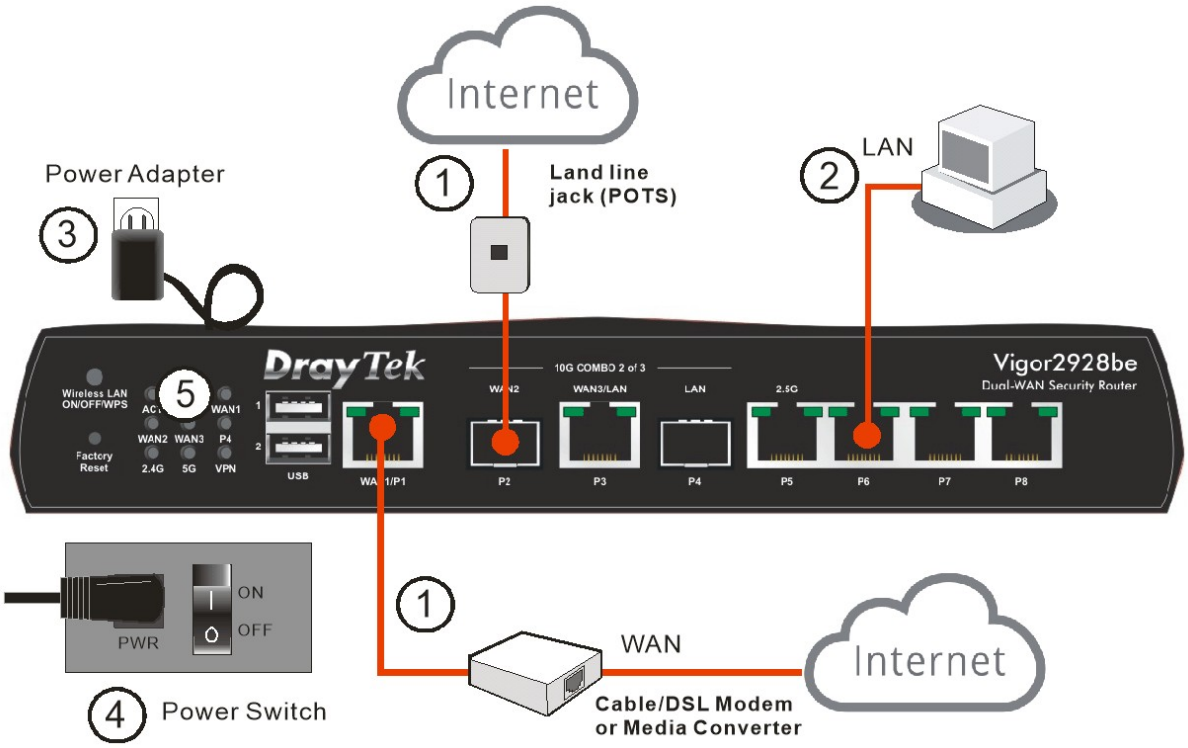
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

Before starting to configure the router, you have to connect your devices correctly.

3.1 Network Connection

1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45).
2. Connect one end of an Ethernet cable (RJ-45) to one of the **LAN** ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.
3. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.
4. Power on the device by pressing down the power switch on the rear panel.
5. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

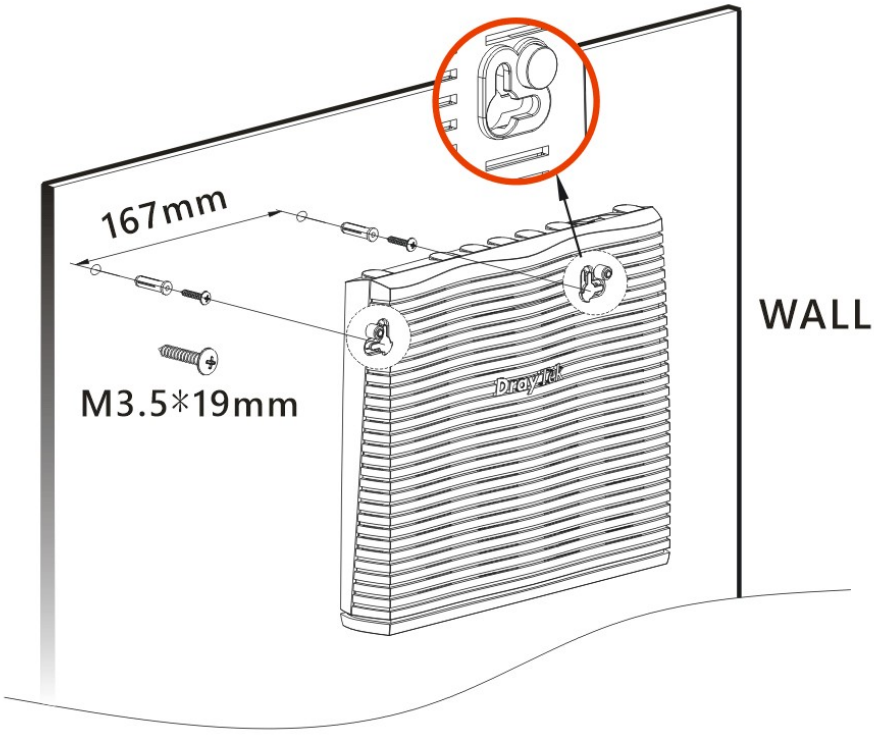
(For the detailed information of LED status, please refer to section 2. Panel Explanation)



3.2 Wall-Mounted Installation

Vigor router has keyhole type mounting slots on the underside.

1. Drill two holes on the wall. The distance between the holes shall be 167mm.
2. Fit screws into the wall using the appropriate type of wall plug.



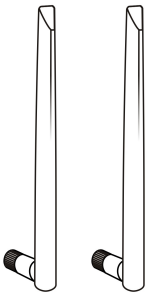
Note	The recommended drill diameter shall be 6.5mm (1/4”).

3. When you finished about procedure, the router has been mounted on the wall firmly.

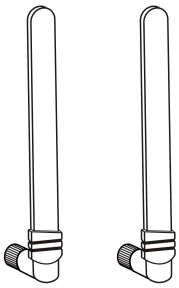
3.3 Antenna Installation

Antenna must be installed on Vigor router correctly to obtain the transmission signal.

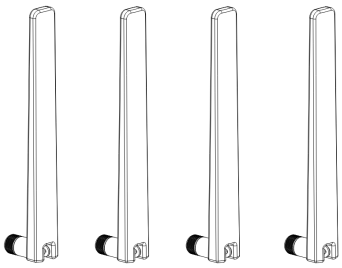
For be models



For 4G model



For 5G-NR model



The number of antenna used for 4G and 5G-NR models are different.

4G Model

5G-NR Model

For optimal wireless connectivity and data transmission performance, it is recommended to connect all available antennas.

However, if you only need to install one or a pair of antennas to meet the needs of certain environments (which may affect network performance), please refer to the main signal connector diagram below for antenna installation.

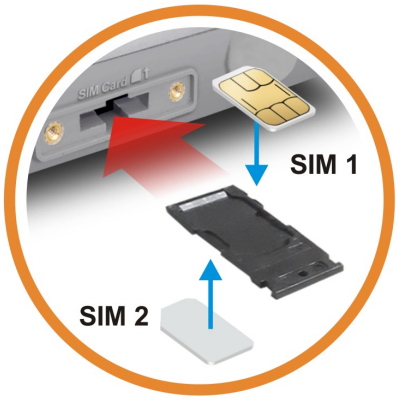
4G Model

5G-NR Model

For installing the SIM card into the card slot,

(1) While installing the SIM card into the card slot, note that the back plate of the SIM card slot must be removed first.

(2) Assemble the SIM1 and SIM2 with the SIM tray. Then insert the SIM tray into the SIM card slot of the router.

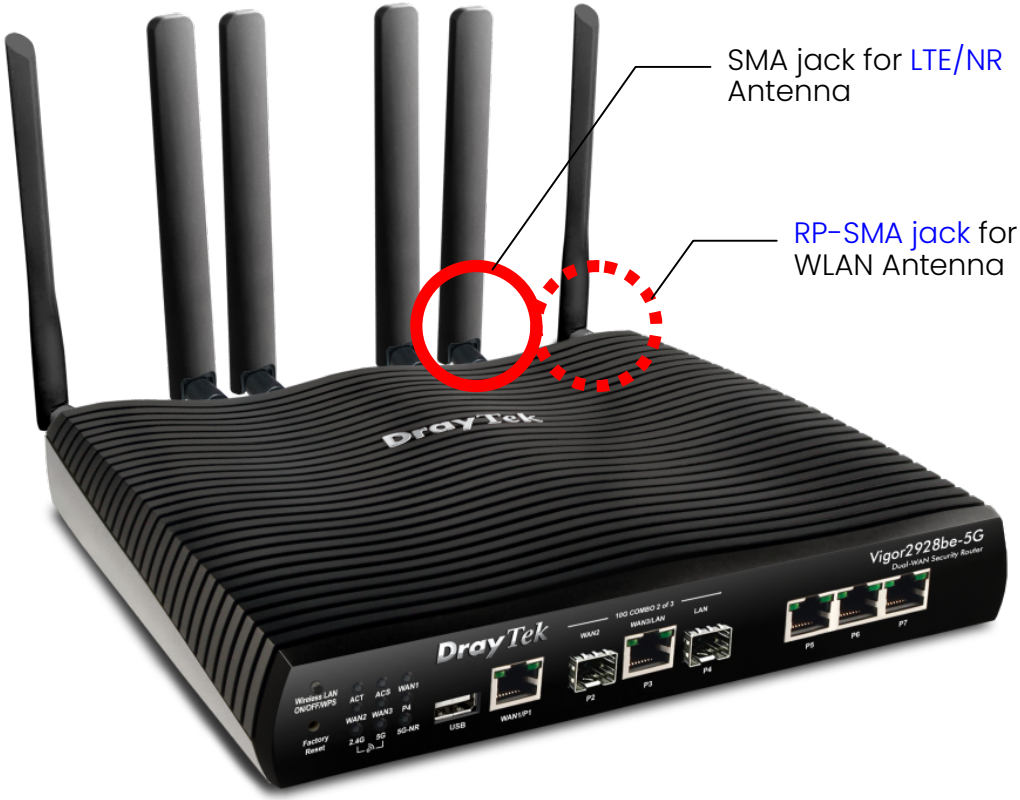


Note

If you need to remove SIM1 or SIM2, carefully take them out of the card slot without bending the SIM tray.

Warning

There are two types of antennas provided for Vigor2928be-5G, which must be installed in different locations carefully and correctly. Wrong installation might cause bad signal of wireless connection. Therefore, pay attention to the installation of antennas by referring to the following illustration.



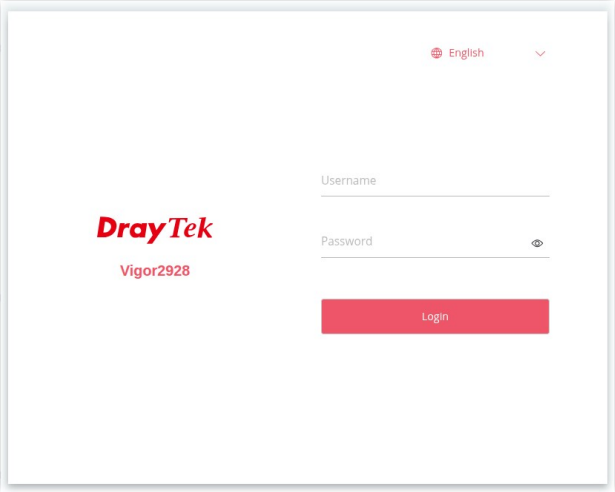
4. Software Configuration

To access Internet, please finish basic configuration after completing the hardware installation.

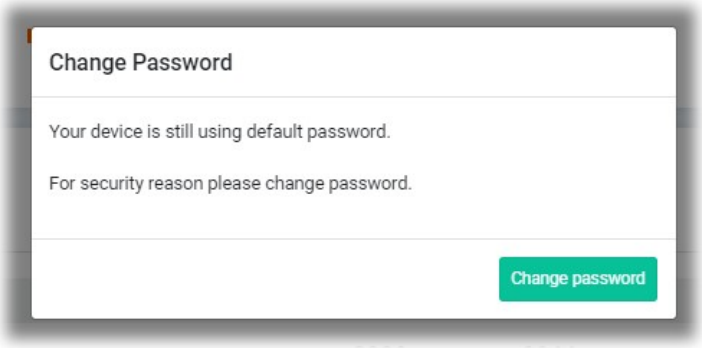
The **Quick Start Wizard** is designed for you to easily set up your router for Internet access. You can directly access the **Quick Start Wizard** via Web User Interface. Make sure your PC connects to the router correctly.

Note	You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as the default IP address of Vigor router 192.168.1.1. For the detailed information, please refer to - Trouble Shooting of the user's guide.

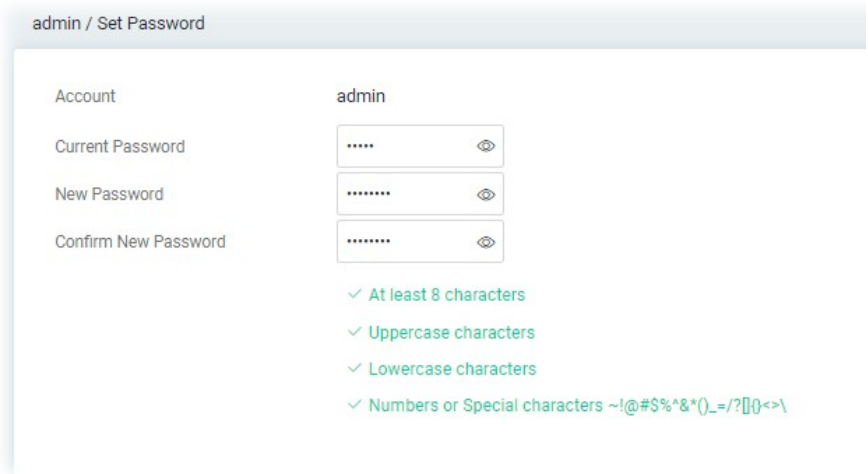
1. Open a web browser on your PC and type **https://192.168.1.1.** A pop-up window will open to ask for username and password. Please enter "admin/admin" as the Username/Password and click **Login**.



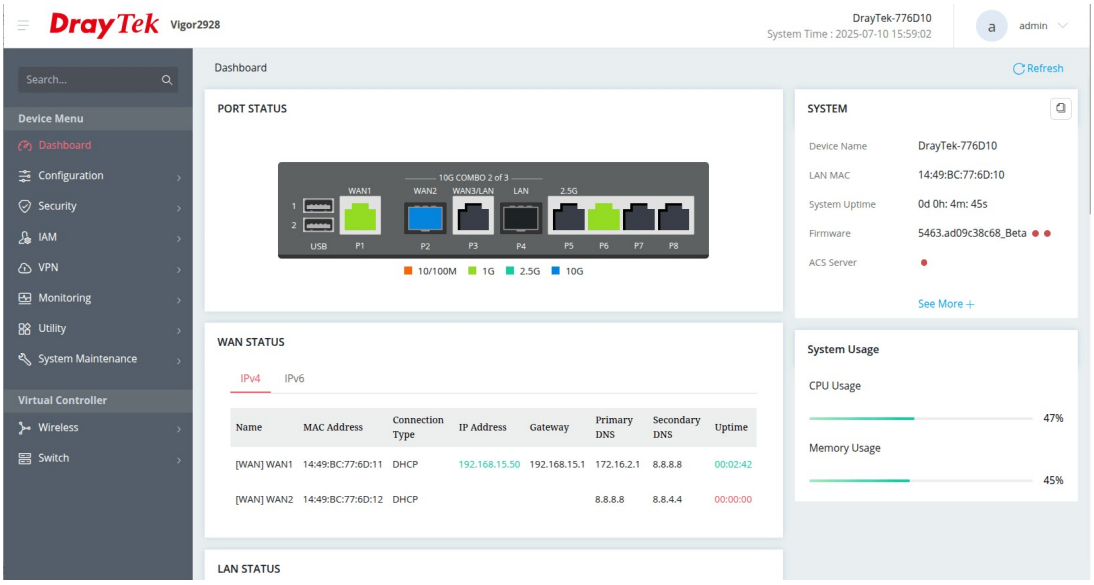
2. Next, the page will appear to guide you change the login password.



3. You **MUST** change the login password before accessing the web user interface. Please set a new password for network security.



4. After clicking **Apply**, the Main Screen will pop up.



5. Customer Service

If the router cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via https://myvigor.draytek.com.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

https://www.draytek.com