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Deep Orange Data DO

Deep Orange Data 300Mbps 4G LTE Modem Wi-Fi Wireless Router User Manual

Model: DO (WE826-T/ZBT-WE826-Q)

1. INTRODUCTION

This user manual provides comprehensive instructions for the Deep Orange Data 300Mbps 4G LTE Modem Wi-Fi Wireless Router. It covers hardware installation, initial setup, operation, and troubleshooting to ensure optimal performance and connectivity for your RVs and mobile homes.

1.1 Package Contents



Figure 1.1: Contents of the Deep Orange 4G LTE Router package.

- 1 x Deep Orange 4G/LTE Router
- 4 x High-performance Antennas
- 1 x Power Adapter
- 1 x SIM Adapter Pack
- 1 x Ethernet Cable
- 1 x User Manual (this document)

2. PRODUCT OVERVIEW

2.1 Physical Features

The Deep Orange 4G LTE Router features multiple ports and indicators for easy connectivity and status monitoring.



Figure 2.1: Rear panel of the router with LAN, WAN, Reset, and DC ports.

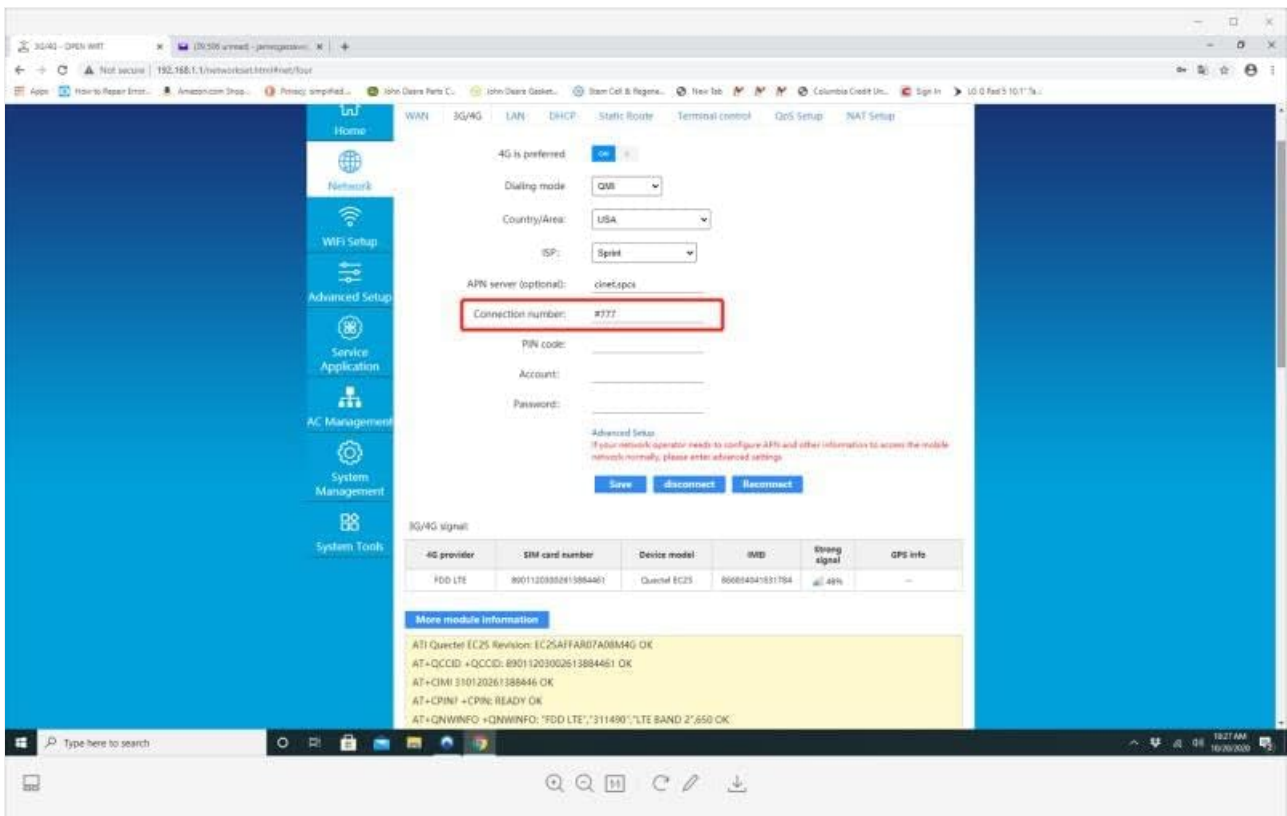


Figure 2.2: Side panel of the router with USB and SD card slots.

- **LAN Ports (LAN1-LAN4):** Four 10/100 Mbps Ethernet ports for connecting wired devices.
- **WAN Port:** One 10/100 Mbps Ethernet port for connecting to an external modem or existing network.
- **Reset Button:** Used to restore factory default settings.
- **DC Power Input:** Connects to the included 12V/1A power adapter.
- **USB Port:** For connecting external devices or storage.
- **SD Card Slot:** For inserting an SD card for additional storage.
- **Antenna Connectors:** Four connectors for attaching the external Wi-Fi and 4G/LTE antennas.

2.2 LED Indicators

The router features several LED indicators on its top panel to show the device's status.



Figure 2.3: Top panel LED indicators.

- 802.11n 14dBm ± 2dBm
- ◆ Receiving sensitivity :802.11b: -83dBm@10% PER, 802.11g: -74dBm@10% PER, 802.11n: -68dBm@10% PER,
- ◆ 5 Port 10/100 Mbps Auto MDI/MDIX
- ◆ 1*USB2.0
- ◆ 1*MICRO SD(TF) card slot(supports 128G memory)
- ◆ 1*PCI-E slot
- ◆ Supports RESET function
- ◆ Support watchdog feature
- ◆ Many kinds of way to protect your data transmission
- ◆ Rich software management settings

Specification:

Hardware	
Main chipset	QCA9531
RAM	DDR2 128MB
FLASH	SPI 16MB
Protocol	IEEE802.11b/802.11g/802.11n/802.3/802.3u
Wireless speed	2.4g 300Mbps
Work frequency	2.4GHZ
Antennas	2 or 4 removable 5dBi antenna(customers can choose the antennas for the module)
Interface	1*PCI-E slot 1*SIM card slot 1*USB 2.0 port 1*Micro SD card slot 1*10/100M WAN port, support Auto MDI/MDIX 4*10/100M LAN port, support Auto MDI/MDIX
LED	Power,PCIE module indication light,2.4G,WAN,LAN1,LAN2,LAN3,LAN4
Button	1*Reset button
Power adapter	DC 12V/1A
Whether support POE supply	No
Max Power consumption	< 12W
Product size (L*W*H) &Color	Size:130*82*34MM Color: (Metal) Black(Optional)

Figure 2.4: LED Indicator Status Guide.

LED	Status
Power Led	Light when power on
LTE Led	Light when connecting to LTE network, flash during data transferring
WiFi Led	Light when WiFi is on, flash during data transferring
WAN Led	Light when cable is connected, flash during data transferring
LAN1-4 Led	Light when cable is connected, flash during data transferring

3. SETUP

3.1 Hardware Installation



Figure 3.1: Router with antennas installed.

1. **Attach Antennas:** Screw the four high-performance antennas onto the corresponding connectors on the router.

Ensure they are securely tightened.

2. **Insert SIM Card:** Locate the SIM card slot on the side of the router. Insert your activated 4G LTE SIM card into the slot until it clicks into place. Ensure the SIM card is correctly oriented.
3. **Connect Power:** Connect the included power adapter to the DC power input port on the router and then plug the adapter into a power outlet. The Power LED should illuminate.
4. **Connect Ethernet (Optional):** If you wish to connect a wired device or use the WAN port, connect an Ethernet cable from your device to one of the LAN ports, or from an external modem to the WAN port.

3.2 Initial Configuration

The router is pre-configured for ease of use. For advanced settings or initial setup, access the web management interface.

Specification

Model Number:ZBT-WE826-Q

Description:5Port-4G wireless router



Simply description:

WE826-Q uses the latest wireless solution,with stable performance and rich functions,it can bring more user experience.2.4GHz can be up to 300Mbps,provide 1*USB 2.0 port,1*Micro SD(TF) card slot, 1*mini PCIE slot,1*SIM card slot.Mini PCIE slot can be uploaded 5G module(11AC module) according to customers' demands, the max transmit speed can be 867Mbps, depends on the 11AC module .Also support 3G,4G (3G,4G PCIE module is necessary), it could also dial-up via the USB port (should mount the 3G,4G network card), also support watchdog feature.

Features:

- ◆ Supports IEEE802.11b/802.11g/802.11n/802.3/802.3u
- ◆ Wireless transmitted power :802.11b 18dBm \pm 2dBm,802.11g 15dBm \pm 2dBm ,

Figure 3.2: Router default login information label.

- **Default IP Address:** 192.168.1.1
- **Default Username:** admin
- **Default Password:** admin (as indicated on the label)
- **Default Wi-Fi Password:** 5111FB58 (as indicated on the label)

To access the web interface:

1. Connect your computer or mobile device to the router's Wi-Fi network (SSID and password are on the router label) or via an Ethernet cable to a LAN port.
2. Open a web browser and enter `http://192.168.1.1` in the address bar.
3. Enter the default username "admin" and password "admin" when prompted.
4. Upon successful login, you can configure network settings, Wi-Fi name, password, and other advanced options.



Figure 3.3: Web management interface for network settings.

Important APN Settings: For some carriers, you may need to manually configure the Access Point Name (APN) settings within the web interface under the 3G/4G section. Refer to your SIM card provider for the correct APN details.

4. OPERATING INSTRUCTIONS

4.1 Connecting Devices

- **Wi-Fi Connection:** On your device (smartphone, tablet, laptop), search for available Wi-Fi networks. Select the router's SSID (network name) and enter the Wi-Fi password found on the router's label or configured in the web interface.
- **Ethernet Connection:** Connect an Ethernet cable from your wired device (e.g., desktop computer, smart TV, gaming console) to any of the LAN ports on the router.

4.2 Network Settings

The web management interface allows for customization of your network. Key settings include:

- **WAN Type:** Configure how the router connects to the internet (e.g., 3G/4G, PPPoE, Dynamic IP, Static IP).
- **Wi-Fi Settings:** Change SSID, password, security type (WPA2-PSK recommended), and Wi-Fi channel.
- **DHCP Server:** Manage IP address distribution to connected devices.
- **Port Forwarding/DMZ:** For specific applications requiring open ports.
- **Guest Mode:** Enable a separate Wi-Fi network for guests, providing internet access without access to your main network.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Deep Orange 4G LTE Router.

Problem	Possible Cause	Solution
No Internet Connection	SIM card not activated or incorrectly inserted; incorrect APN settings; no cellular signal.	<p>Ensure SIM card is active and properly inserted.</p> <p>Verify APN settings in the web interface match your carrier's requirements.</p> <p>Check LTE LED status. If off, move the router to an area with better cellular signal.</p> <p>Reboot the router by unplugging and replugging the power adapter after a minute.</p>
Cannot Access Web Interface	Incorrect IP address; device not connected to router; incorrect login credentials.	<p>Ensure your device is connected to the router's Wi-Fi or a LAN port.</p> <p>Verify you are using the correct IP address (http://192.168.1.1).</p> <p>Confirm username "admin" and password "admin" (or your custom password).</p> <p>If you forgot the password, perform a factory reset using the Reset button (this will erase all custom settings).</p>
Weak Wi-Fi Signal or Slow Speeds	Router placement; interference; outdated firmware.	<p>Place the router in a central location, away from obstructions and other electronic devices.</p> <p>Ensure antennas are properly oriented.</p> <p>Consider updating the router's firmware if available (check manufacturer's website).</p>
SIM Card Not Recognized (Mexico/Canada)	Carrier compatibility; specific APN settings required.	<p>Confirm your SIM card is compatible with the router's supported bands.</p> <p>Manually configure the APN settings specific to your Mexican or Canadian carrier.</p> <p>Some carriers may require specific TTL configurations, which might need advanced firmware or AT commands.</p>

6. SPECIFICATIONS

Detailed technical specifications for the Deep Orange 4G LTE Router (Model ZBT-WE826-Q).

Software	
WAN Type	PPPoE,Dynamic IP, Static IP,3G (4G) dial-up
Work mode	AP; ROUTER;
DHCP server	Server, Client, DHCP Client List, Address Reservation
System	SDK,openwrt, eCos
Virtual Server	Port Forwarding DMZ host
Security settings	Client filter Mac address filter URL filter
DDNS	Support
VPN	Support
Band Ctrl	Support
Static Router	Support
System Log	Support
Other Function	Mac clone NTP Synchronize Web firmware upgrade...
Others	
Work Environment s	Operating Temperature:0°C ~ 40°C ; Storage Temperature:-40°C~ 70°C ; Operating Humidity:10%~90% non-condensing Storage Humidity:10%~90% non-condensing
Certification	CE,FCC &roHs
Packing list	1*Power adapter1PCS(12V/1A, 1.5M) 1*Lan cable .,1M
Packing box	Size265*150*46MM
Net weight	0.46 KG
Gross weight	0.75 KG

Figure 6.1: ZBT-WE826-Q Specification Sheet (Page 1).

Category	Specification
Model Number	ZBT-WE826-Q
Description	5-Port 4G Wireless Router
Main Chipset	QCA9531
RAM	DDR2 128MB
FLASH	SPI 16MB
Wireless Protocol	IEEE802.11b/802.11g/802.11n/802.3/802.3u
Wireless Speed	2.4G 300Mbps
Work Frequency	2.4GHz
Antennas	2 or 4 removable 5dBi antennas (customers can choose the antennas for the module)
Interfaces	1*PCI-E slot, 1*SIM card slot, 1*USB 2.0 port, 1*Micro SD card slot, 1*10/100M WAN port, 4*10/100M LAN ports
LED Indicators	Power, PCIE module indication light, 2.4G, WAN, LAN1, LAN2, LAN3, LAN4
Button	1*Reset button
Power Adapter	DC 12V/1A
Max Power Consumption	< 12W
Product Size (L*W*H)	130*82*34MM
Color	Black (Optional: Metal)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 70°C
Operating Humidity	10% ~ 90% non-condensing
Storage Humidity	10% ~ 90% non-condensing
Certification	CE, FCC & RoHS

7. WARRANTY AND SUPPORT

Deep Orange Data products are designed for reliability and performance. For warranty information, please refer to the terms and conditions provided at the time of purchase or contact our support team.

For technical assistance or inquiries, please contact:

- **Email:** support@deeporangedata.com
- **Website:** <http://deeporangedata.com>

Please have your product model and serial number ready when contacting support to expedite assistance.

