

Basic WAN Connection Setup with Internet Access

After installing the SIM card and connecting cables and antennas, set up the device to connect to the Internet:

1. Wait for 120 seconds after connecting power. The computer gets IP address 192.168.2.100 via DHCP.
2. In a web browser, enter IP address 192.168.2.1.
3. Login using **admin** as both the **Username** and **Password**. If you are using the default password, you will be prompted to change it for future logins.
4. Click **Basic Network > WAN > Connection Setup**.
5. Click **Edit** on the **WAN-1 Cellular** connection
6. If a custom APN setting is required, select **Dial-up profile to Manual Configuration** and then enter the **APN**. Click **Save**.
7. Wait a few minutes and check LED status. When there is a live connection, the CELL Signal and Cell WAN LEDs are ON. For more information on the LEDs, refer to *LED Indicators*.

After the device has a valid Internet connection, your computer automatically has full access to the Internet.

Upgrading Firmware

Once your device is installed, ensure the firmware is up to date.

1. Download firmware updates through the MTR6 product page on www.multitech.com.
2. Unzip the firmware BIN file and save it on your computer.
3. Verify that the computer has DHCP enabled.
4. In a browser, go to **192.168.2.1** and login to the MTR6. The default **Username** and **Password** are both **admin**. If you are using the default password, you will be prompted to change it for future logins.
5. Click **Administration > System Operation > Backup & Restore > FW Upgrade**.
6. Click **Choose File** and select the BIN file you unzipped and saved to the computer.
7. Click **Upgrade**. Wait a few minutes for the upgrade to complete
8. Log in again to verify the firmware version updated.
9. Run through Setup Internet Connection. Refer to *Basic WAN Connection Setup with Internet Access*.

47 CFR Part 15 Regulation Class B Devices

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 or more 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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Additional User, Safety and Regulatory Content

For additional safety and regulatory content, refer to the *MultiConnect rCell MTR6 User Guide* (S000700), which is available at www.multitech.com.

MultiConnect® rCell MTR6 Quick Start

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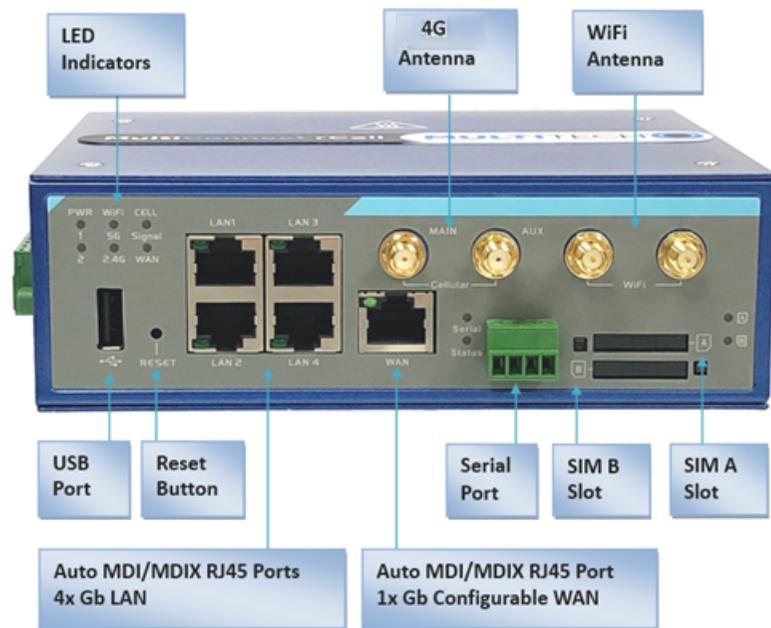
Welcome

The Multiconnect rCell is an affordable Intelligent Wireless Router used to enable devices with Internet service. It is a simple alternative to complex and expensive cellular routers in applications where advanced networking capabilities are already in place or are not required, but there is a need for remote access without using local wired networks

Package Contents

Description	Quantity
MultiConnect rCell modem	1
Antennas (Cellular)	2
Antennas (WiFi)	2
Power Adapter	1
8-pin Terminal Block (Power and IO)	1
4-pin Terminal Block Power Adapter (RS232 / RS485)	1
Ethernet Cable	1
Din Rail Bracket	1
Desktop Mounting Bracket Set	1
Quick Start	1

Front Panel



Connectors

Item	Description
Reset	Push and hold for 30 seconds to reset the device back to factory default settings.
Ethernet	Connect an Ethernet cable. 4 LAN and 1 WAN RJ-45 ports.
8-pin Block	Connect to the power adapter. Red wire to POWER1/2 and black wire to GND.
SIM A/B	Insert mini SIM (2FF) cards provided by your service provider.
CELL SMA	Connect cellular antennas.

Item	Description
WIFI RSMA	Connect the WIFI antennas.
4-pin Block	Two wires RS232 / RS485
USB Host	USB host port for external USB drive/storage

LED Indicators

Item	Description
Power 1/Power 2	On: Solid depending on DC power input applied. (12V to 48VDC)
WIFI 5G/WIFI 2.4G	On: Solid when Wi-Fi is enabled and active. Off: Wi-Fi is disabled.
Status	Off: Solid when the device is power on and booting. On: When the device is ready and running normal.
Cell Signal	On: Solid when there is a strong cellular signal. Off: No cellular signal. Flashing fast: Medium cellular signal. Flashing slow: Weak cellular signal.
Cell WAN	On: Solid when there is a an active WAN connection. Off: No active WAN connection.
Serial	On: Serial WAN is established and active. Off: No active WAN connection. Flashing: While data packet transferred via Serial port.
Ethernet (On the Ethernet port)	On: Solid when there is an Ethernet connection. Off: No Ethernet connection. Flashing: Data actively on Ethernet port.

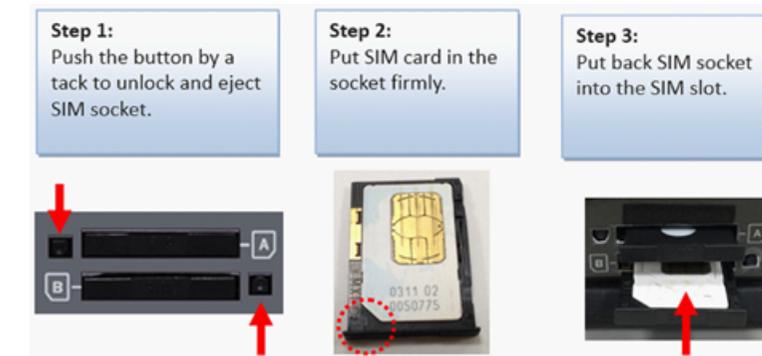
Item	Description
SIM A/ SIM B	On: SIM card detected and ready. Off: SIM card not present or not detected. Flashing: Detecting and querying SIM card information.

Installing the SIM Card

This device requires a 2FF mini SIM card, which is supplied by your service provider. Install the SIM card before connecting antennas and cabling the device.

To install the SIM card:

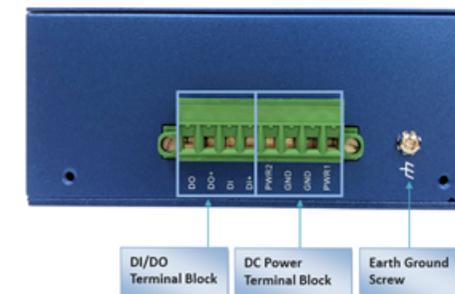
1. Locate the SIM A or B card slot on the front of the device. The slots are labeled A and B. Use a tack, paper clip, or pen to push the button to unlock and eject the SIM holder.
2. Put the SIM card in the socket.
3. Insert the socket back into the SIM card as shown.
Note: When setting up the software, make sure you select the slot in which you installed the SIM card.



Attaching Antennas and Cables

Note: Before powering up the device, enable DHCP on your computer's Ethernet port.

1. Connect the provided antennas to the connectors labeled Cellular and WiFi. Finger tighten. For best cellular performance, position the top of the antennas as far apart as possible.
2. Connect the Ethernet cable between the Ethernet ports on your computer and the device's Ethernet LAN port.
3. Connect the 12V power adapter and power connector to the device. Red wire is 12V POWER and black wire is GND.
4. To power up the device, plug the power adapter into an electrical outlet.



RS-232/485

To use the 4-pin terminal block serial port for connecting to your serial device use the RS-232/485 pin assignments as shown.



Pin 1 2 3 4

	Pin 1	Pin 2	Pin 3	Pin 4
RS-232	GND	RXD	TXD	GND
RS-485	GND	DATA-	DATA+	GND