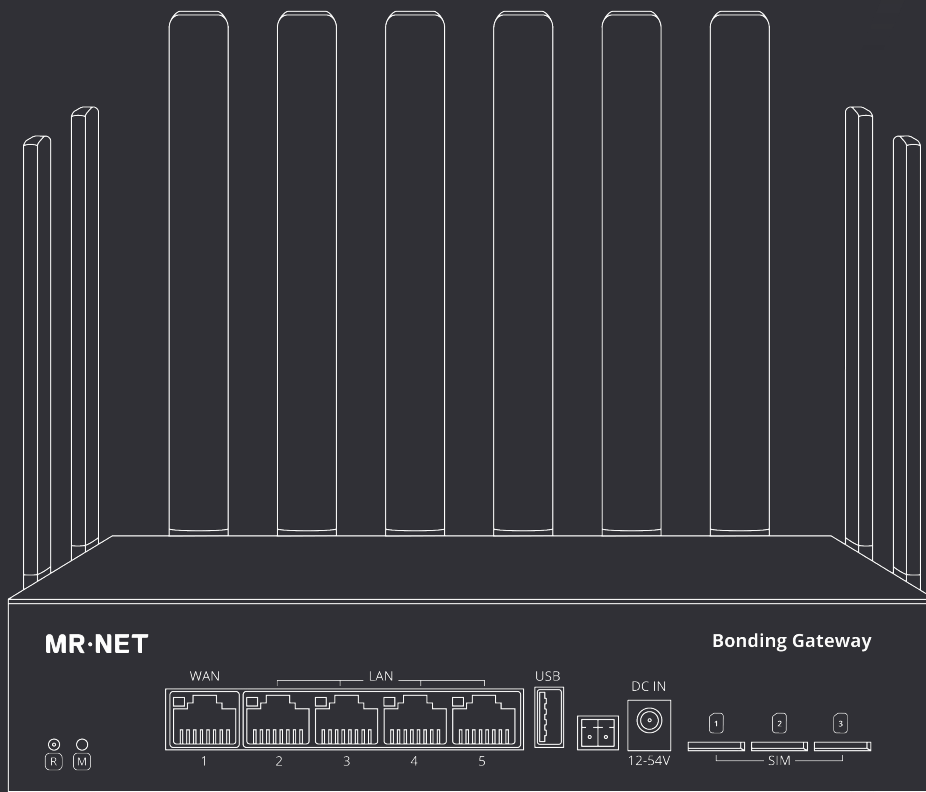


# Cellular Bonding Gateway

Simple | Unbreakable | Wireless

- Manual guide
- User guide
- How it works
- Technical specifications



MR-NET

MODEL: 006 PLUS

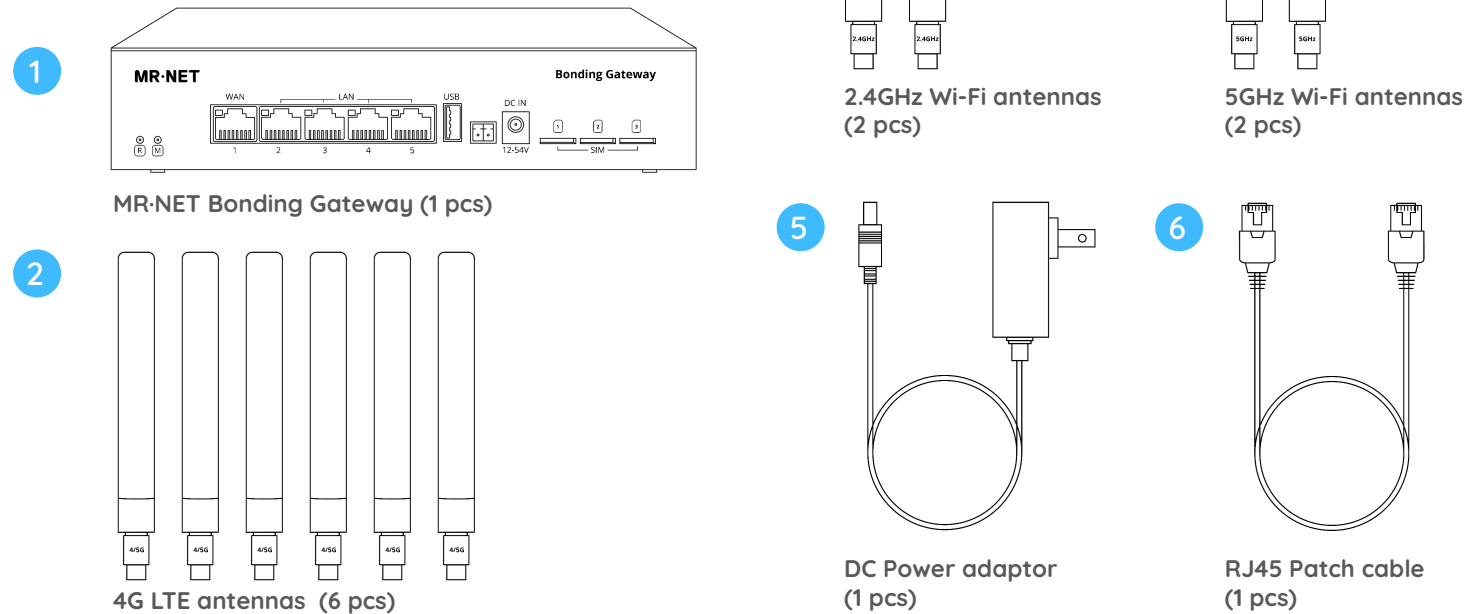
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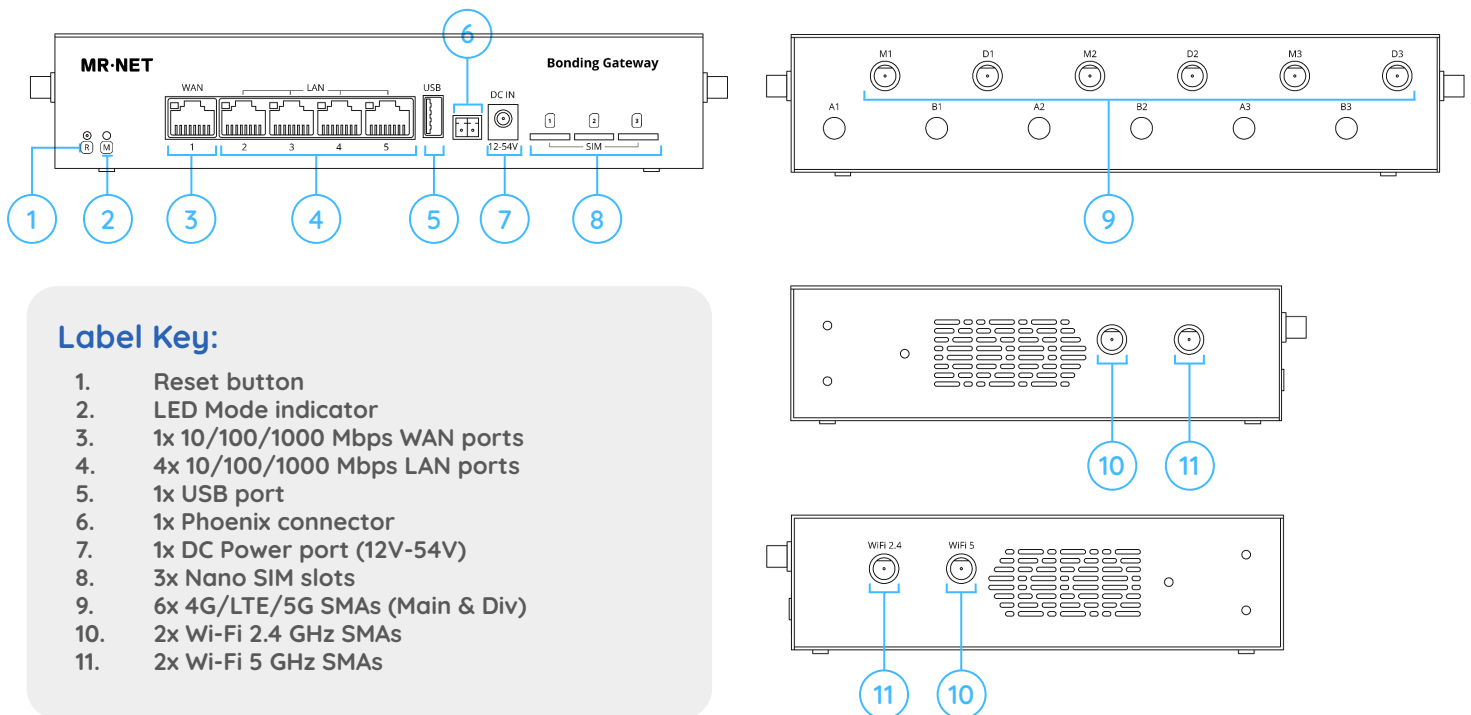


**Cellular Bonding Gateway** designed to provide a simultaneous aggregated (bonded) network connection to an endpoint via several independent wired / wireless feeds

## 1. Package contents



## 2. Main elements





## 3. Installation steps

**Setup Guide:** Follow these steps to set up your device quickly and easily

### 1. Unpack the Box

Open the box and remove the Bonding Gateway (Device) and all other items from the package contents (antennas, DC adapter, RJ45 cable).

### 3. Attach the Wi-Fi Antennas

Screw the four Wi-Fi antennas into the designated ports, two on the left side and two on the right side of the Bonding Gateway.

### 5. Connect the Power Supply to the Device

Insert the power supply adapter into the DC connector on the Bonding Gateway. Do not plug it into an electrical outlet yet.

### 7. Power On the Device

Plug the DC power adapter into a 110V electrical outlet. The device will automatically turn on, and a green light will appear, indicating the unit is powered.

### 9. Connect Your Equipment

Link your equipment to the Bonding Gateway via LAN ports or Wi-Fi.

### 2. Attach the 4G/5G Antennas

Gently screw all six 4G/5G antennas into the SMA ports on the back of the Bonding Gateway. Ensure they are threaded straight and secure.

### 4. Adjust the Antennas

Position each antenna at a 90-degree angle for optimal signal reception.

### 6. Place the Device in the Best Signal Area

Position the Bonding Gateway where cellular signal is strongest, such as near a window or elevated spot. Avoid metal barriers or obstructions.

### 8. Wait for Connection

Allow 2-3 minutes for setup. The mode light will turn solid blue when your internet connection is established.

### It's done!

### You are ready to roll

If you encounter any issues, feel free to reach out via our [website's online chat](#), or email.



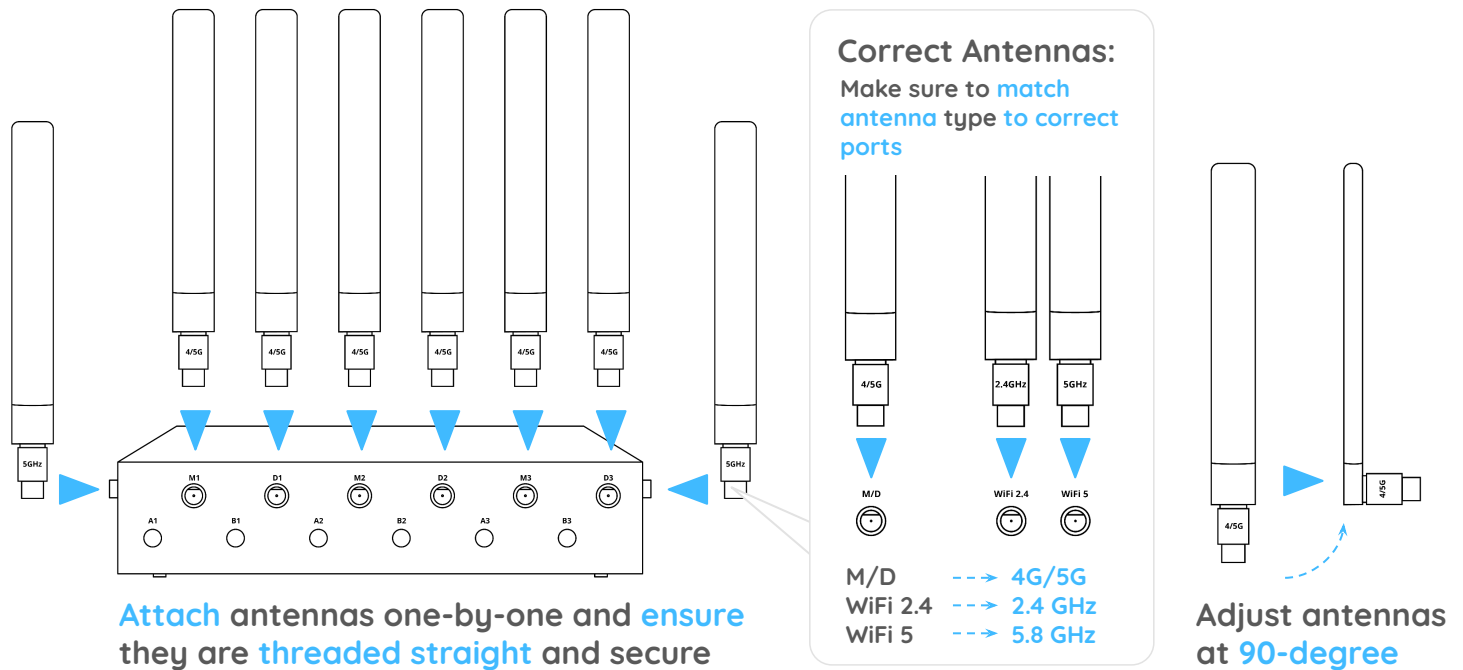
### Contacts:

- online chat
- [support@mrnet.us](mailto:support@mrnet.us)
- <https://mrnet.us/>



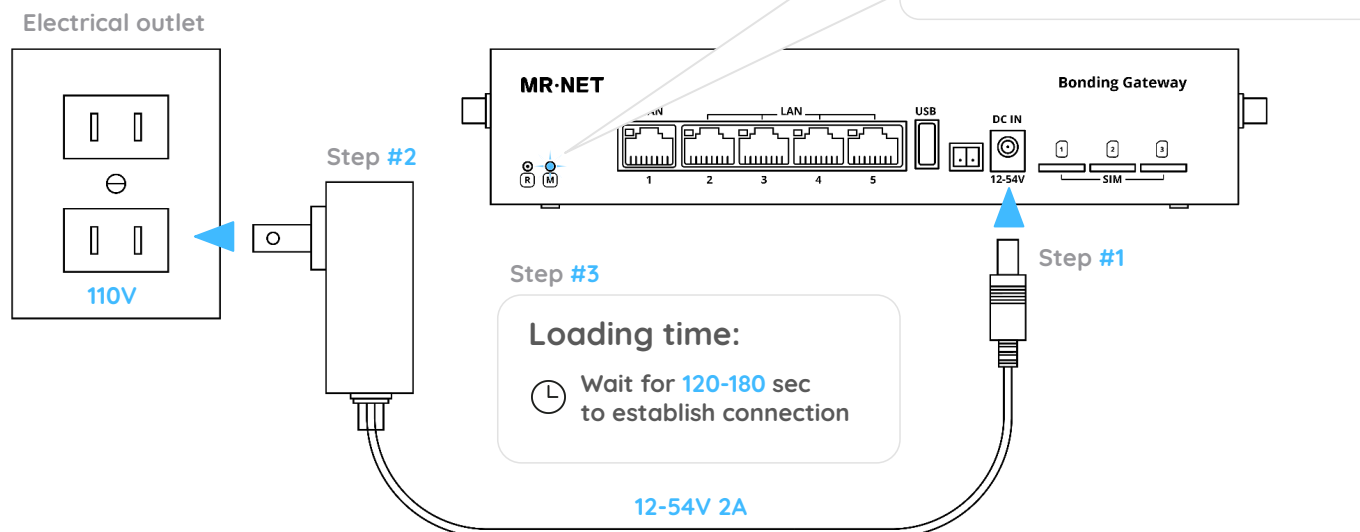
## 4. Operation and configuration

### 1 - Assemble the Bonging Gateway



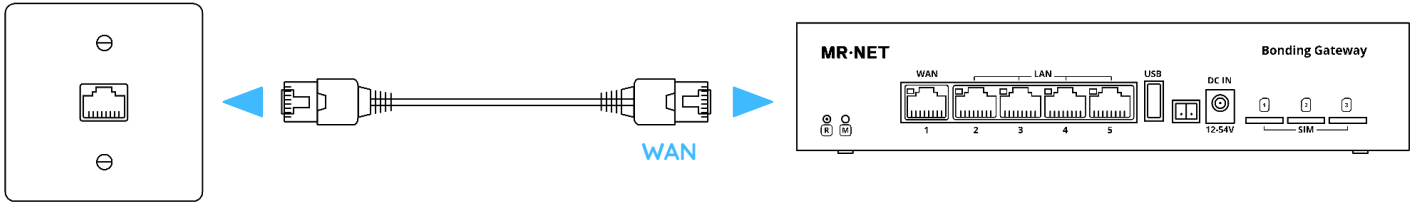
### 2 - Power up equipment and wait for a blue light

Plug into power outlet and wait up to 2-3 minutes for a blue light



## 3 - Additional internet source via WAN

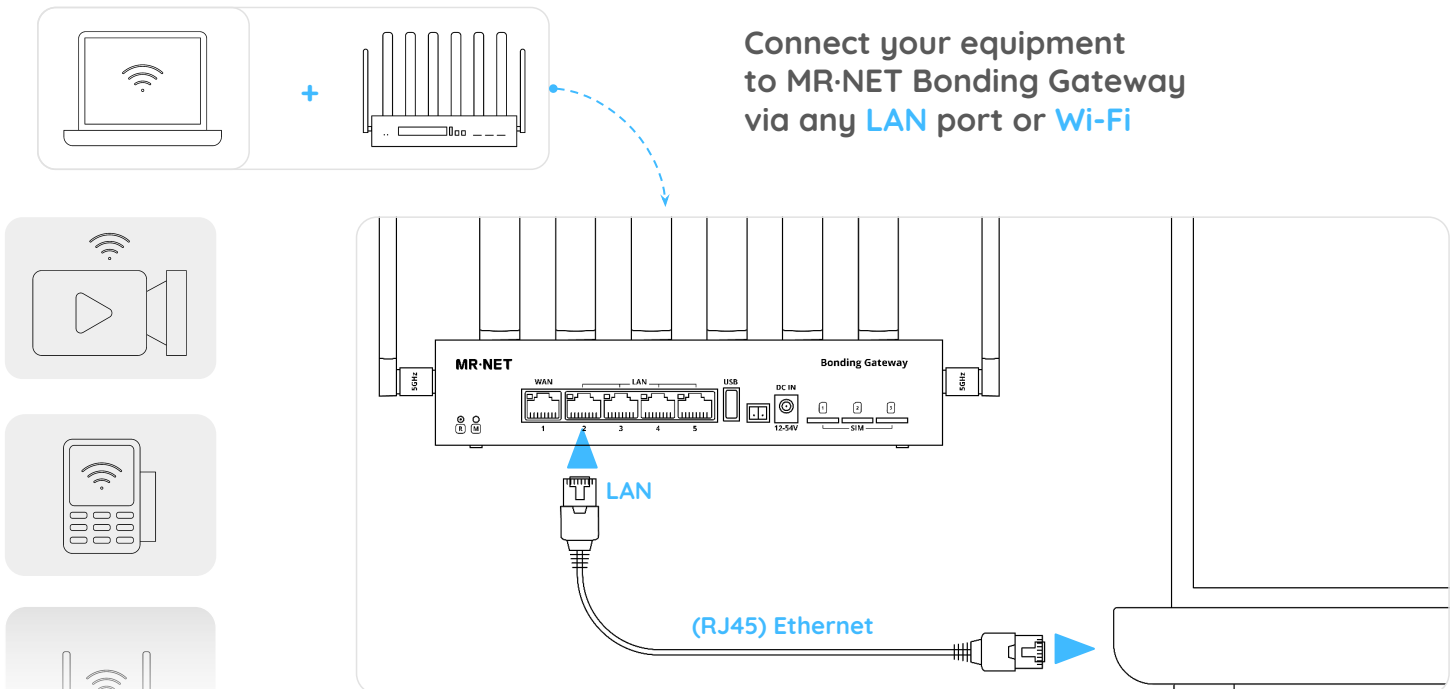
### Internet Source (A)



### Internet Source (B)



## 4 - Connect your equipment via LAN or Wi-Fi

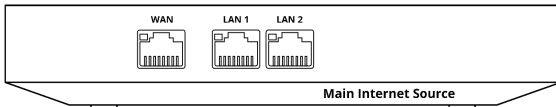


Prefer wired **LAN** for for more **stable** connection



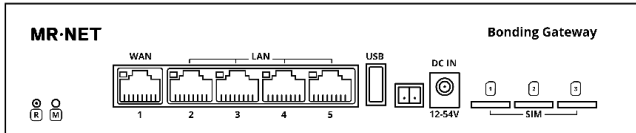
## 5 - Failover mode

### Main Internet Source

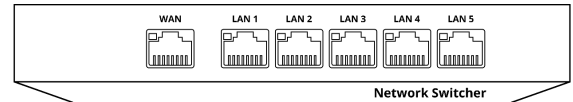


To enable failover mode please use your web management portal at <https://client.mrnet.us/>

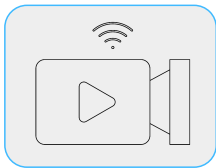
### Bonding Gateway (in failover mode)



### Network Switch



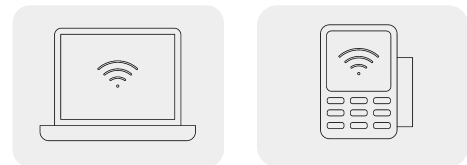
### Mission critical equipment



### Failover mode

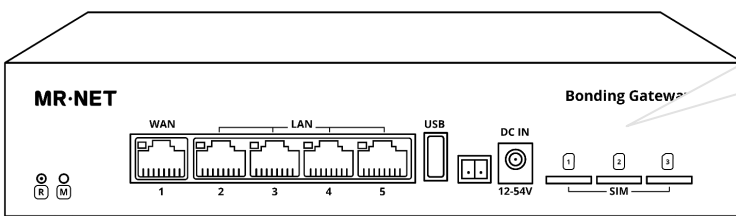
- Default connection
- Failover mode
- - - Signal outage

### Second tier network

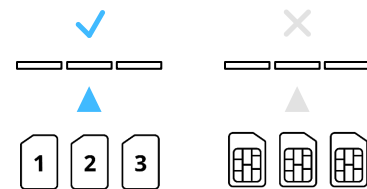


## 6 - SIM card switching

### Pre-installed SIMs



### SIM cards installation:



Each MR-NET Bonding Gateway comes with a pre-installed high-cap SIM cards



If you prefer to use your own SIM cards, contact us to update your network settings; otherwise, they will not work correctly

### Please note:

- ⚠ Do not use supplied SIM cards in third-party equipment



## 5. Daily Use

**Important Tips:** Follow these guidelines to ensure safe and optimal performance



### 1. Use Certified Power Adapters Only

Avoid non-certified power supply adapters, as they could damage the device. Use only adapters rated 12-54V. Contact us if you are unsure which power supply is suitable for your equipment.

### 2. Compliance with Equipment

The device must be used only in strict compliance with client equipment operating, energy, and safety requirements.

### 3. Don't Mix 4G/5G and Wi-Fi Antennas

Do not confuse 4G/5G antennas with 2.4 GHz & 5 GHz Wi-Fi antennas. Each antenna has engravings indicating its type.

### 4. Avoid Metal Obstructions and High-Power Appliances

Do not place the equipment near metal constructions, as they can block cellular signals. Make sure to place the unit at least several feet away from high-power appliances.

### 5. Prefer Wired LAN Connection for Best Performance

Use wired LAN connections for your equipment whenever possible. Wi-Fi is an option but inherently less reliable, especially in crowded areas.

### 6. Distinguish WAN and LAN Ports

Don't confuse WAN and LAN ports. The WAN port is for adding optional extra internet sources from other providers to the bonded connection. LAN ports are for connection your equipment which needs internet access.

### 7. Avoid Misplacing SIM Cards

Do not use pre-installed SIM cards in third-party equipment. If you want to use your own SIM cards, contact our support team to update device settings for them to work correctly.

### 8. Protect from the Elements

The device's enclosure is made of a durable metal. IP50 Class of the protection. Protected from limited dust ingress. No liquid protection.



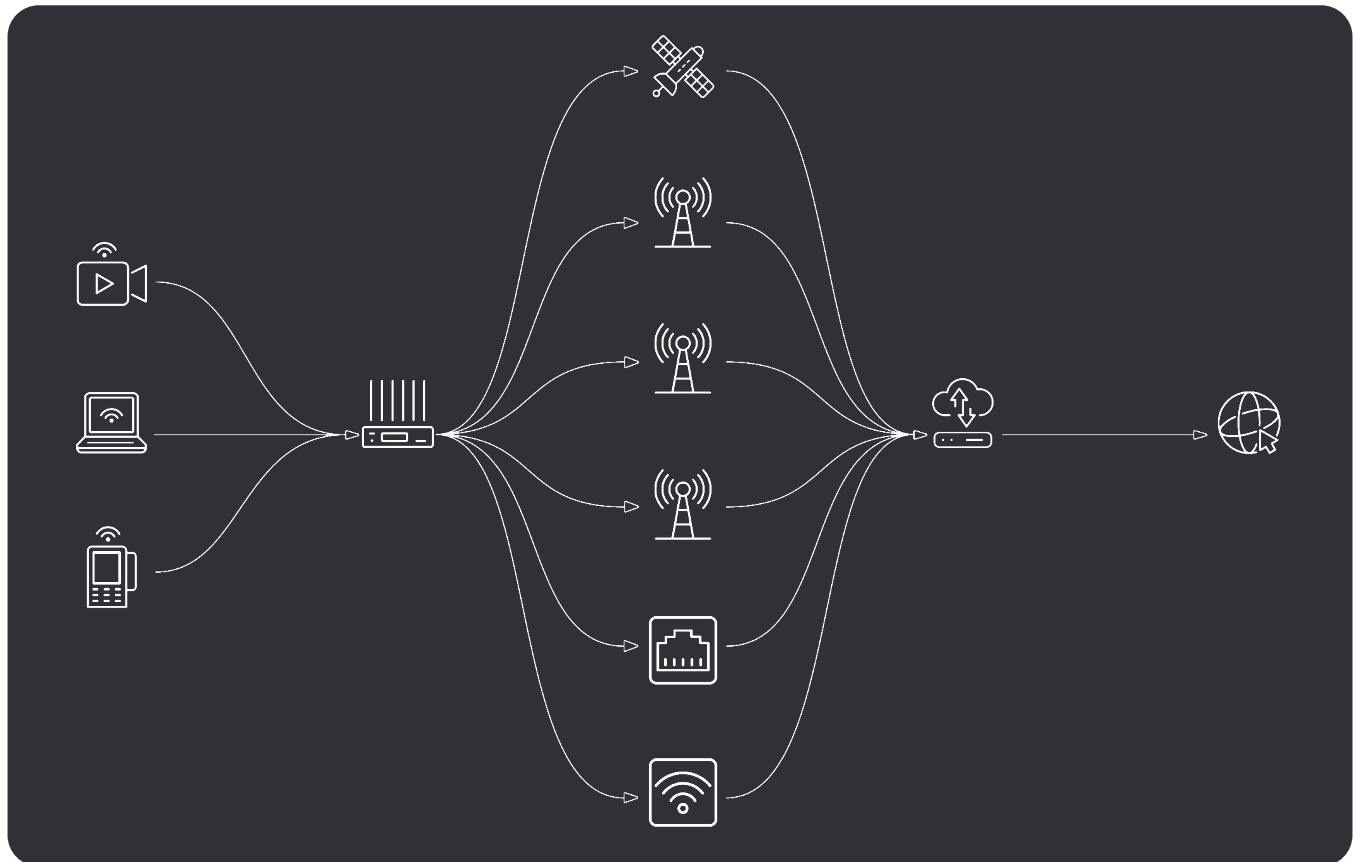


## 6. Bonding Technology

**MR-NET Bonding Gateway** is designed to provide simultaneous aggregated (bonded) network connection to an endpoint via several independent wired / wireless Internet access channels



### How it works:



#### Plug & Play

Installation in under  
120 seconds

#### Up to 6

Independent internet  
sources

#### Secure

Cloud infrastructure  
management

#### Wi-Fi 6

2.4/5 GHz for optimum  
performance

#### 3 SIMs

Pre-installed SIMs  
(third-party SIMs optional)

#### Highest priority data

No throttles, no caps,  
always on



## 7. Technical specifications

### MRNET 006 PLUS MODEL



#### Specification:

##### LTE support:

- 4G LTE-A CAT6 modems (Quectel EM060K-GL)

##### Supported carriers:

- Verizon, T-mobile, AT&T & other

##### SIM Slots:

- 3 with pre-installed SIMs

##### Ports:

- 4x 10/100/1000Mbps RJ45 LAN Ethernet ports
- 1x 10/100/1000Mbps RJ45 WAN Ethernet ports
- 1x Phoenix port
- 1x USB-A port

##### Wi-Fi:

- Wi-Fi 6 (802.11ax)
- Operating Frequency 2.4GHz / 5GHz

##### Buttons:

- Reset button

##### Operating conditions:

- Voltage: 12V-54V
- Power consumption: ~24 W
- Operating temperatures: 32-104° F
- Air humidity: up to 90%

##### Device Dimensions:

- Net Weight: 2.9 lbs (Gateway only)
- Dimensions: 8.3" x 6.3" x 1.9" (W x D x H)

##### Package Dimensions:

- Gross Weight: 4.6 lbs
- Package Dimensions: 13.6" x 11.8" x 3.3" (W x D x H)

#### Operating bands:

##### LTE-FDD:

- B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71;

##### LTE-TDD:

- B34/38/39/40/41/42/43/46 (LAA)/48 (CBRS);

##### Up to 2 xCA:

- B2+B2/5/12/13/29;B4+B4/5/12/13/29;B5+B5/7/25/30/66; B7+B7/12/26; B12+B12/25/30/66; B13+B66; B25+B25/26; B30+B29; B66+B29/66; B41+B41;

##### WCDMA:

- B1/2/3/4/5/6/8/19

#### Features:

##### Routing / Switching Protocols

- IPv4/IPv6, Session persistent failover, NAT, Port Forwarding

##### IP Applications

- DDNS, DNS Proxy, DHCP / DHCPv6

##### Security

- Firewall, e2e encryption for each individual gateway

#### Warranty:

##### General terms

- 1 Year Standard Warranty

