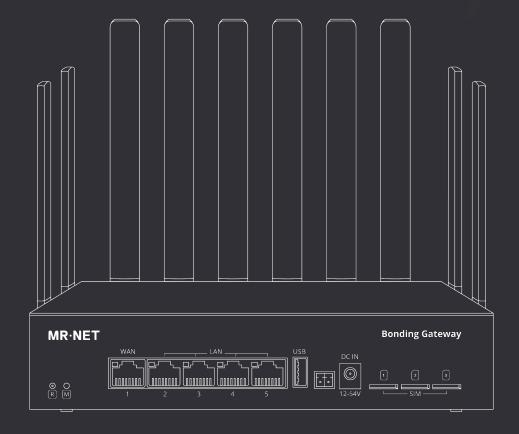
Cellular Bonding Gateway

Simple | Unbreakable | Wireless

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





MR·NET



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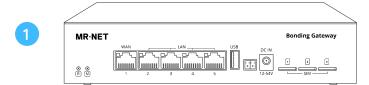
For more information, please visit https://mrnet.us/

Version 1.1

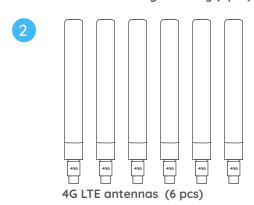
Manual

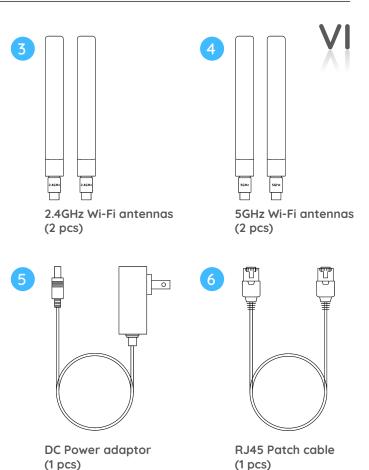
Cellular Bonding Gateway designed to provide a simultaneous aggregated (bonded) network connection to an endpoint via several independent wired / wireless feeds

1. Package contents

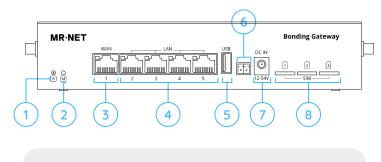


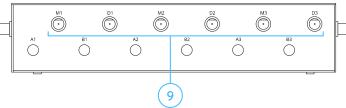
MR·NET Bonding Gateway (1 pcs)





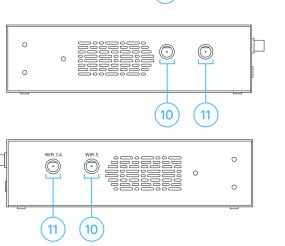
2. Main elements





Label Key:

- 1. Reset button
- 2. LED Mode indicator
- 3. 1x 10/100/1000 Mbps WAN ports
- 4. 4x 10/100/1000 Mbps LAN ports
- 5. 1x USB port
- 6. 1x Phoenix connector
- 7. 1x DC Power port (12V-54V)
- 8. 3x Nano SIM slots
- 9. 6x 4G/LTE/5G SMAs (Main & Div)
- 10. 2x Wi-Fi 2.4 GHz SMAs
- 11. 2x Wi-Fi 5 GHz SMAs



Manual

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 <u>website's online chat</u>, or email.



Contacts:

online chat

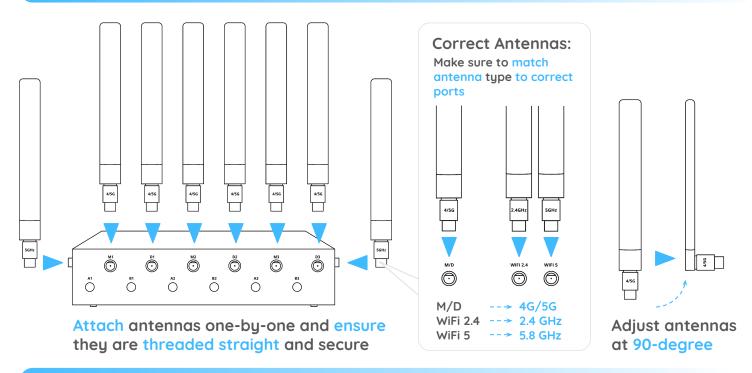
Support@mrnet.us

https://mrnet.us/

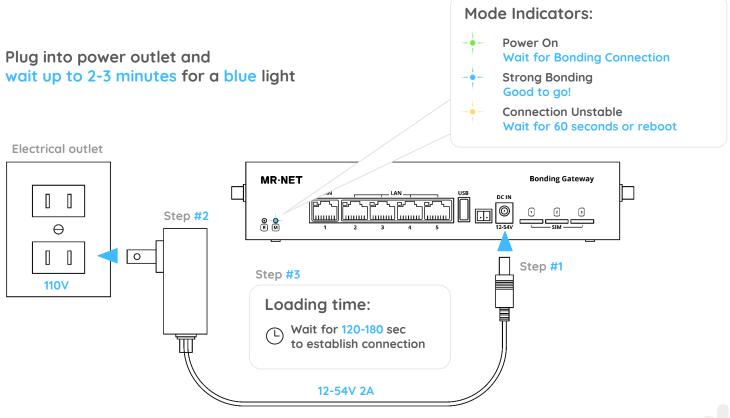
MR-NET

4. Operation and configuration

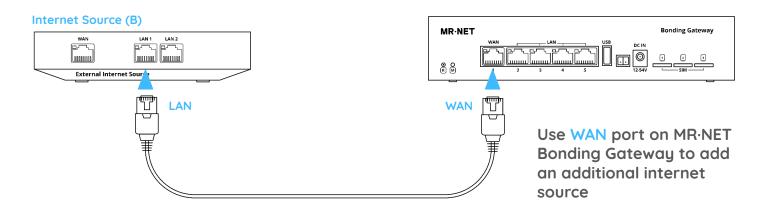
1 - Assemble the Bonging Gateway



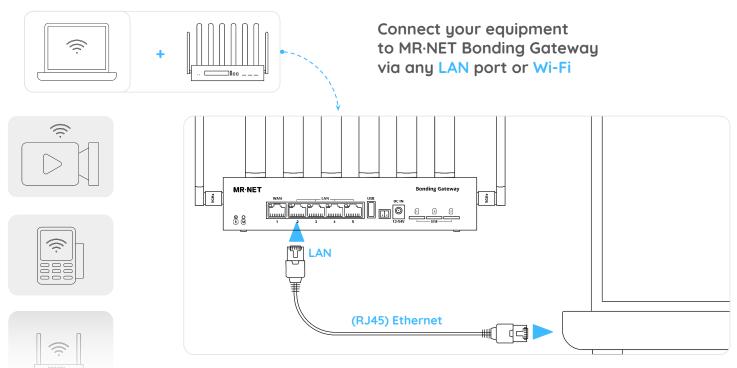
2 - Power up equipment and wait for a blue light



3 - Additional internet source via WAN

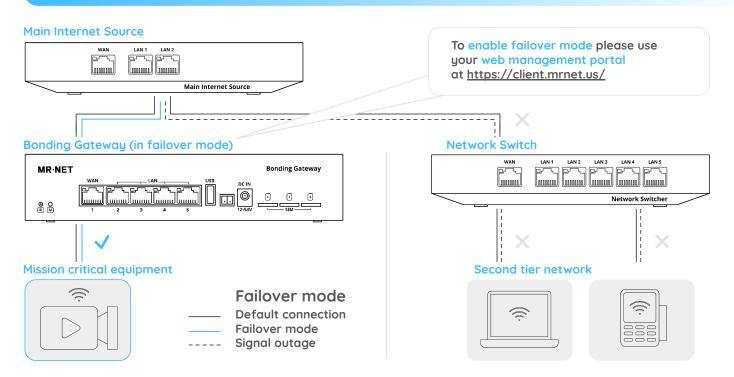


4 - Connect your equipment via LAN or Wi-Fi

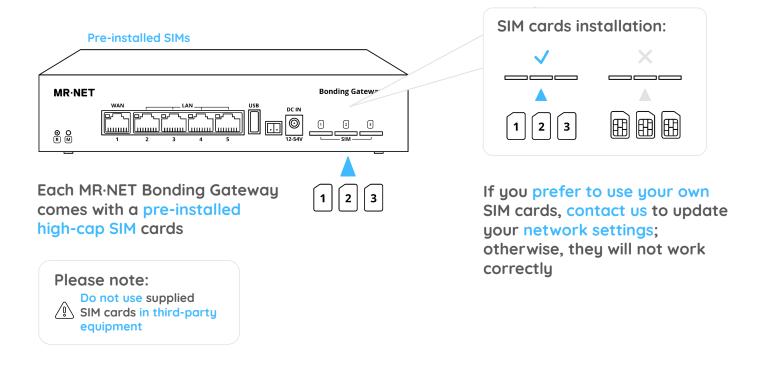


Prefer wired LAN for for more stable connection

5 - Failover mode



6 - SIM card switching



MR·NET - 6 -

5. Daily Use

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



VI

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.



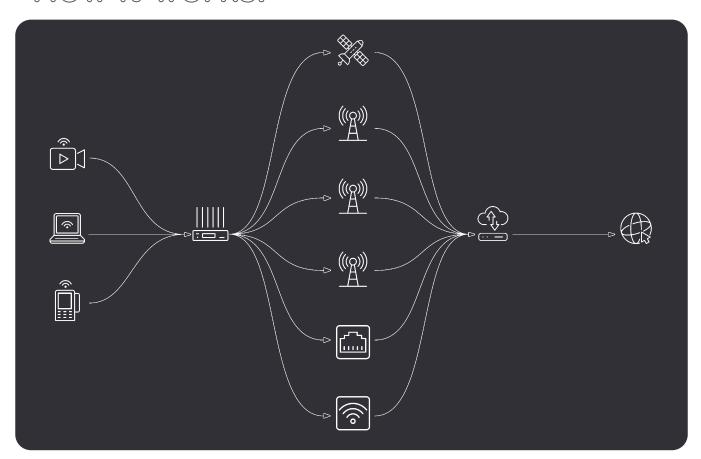
How it works

6. Bonding Technology

VI

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

MR·NET -8-



Tech Spec

7. Technical specifications

MRNET 006 PLUS MODEL

XI

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 port1x 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: $8.3'' \times 6.3'' \times 1.9"$ (W x D x H)

Package Dimensions:

- Gross Weight: 4.6 lbs
- Package Dimensions: $13.6" \times 11.8" \times 3.3"$ (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 ×CA:

- 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

MR-NET

- 1 Year Standard Warranty

- 9 -

End

Contacts

8. Contacts

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



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Old Text



Unpack your box and get the Device

Open the box and get your Bonding Gateway Unpack it from wrapping paper.

3. Plug-in power supply into MR·NET Bonding Gateway

Take the power supply adapter and insert it into the power DC connector. Do not plug power supply adaptor into electrical outlet yet.

5. Plug DC power adaptor into 110v socket

Plug in the power supply, flip the power switch into the "ON" position. A green light appears when the unit is powered on.

7. Install Wi-Fi dongle

To install WI-FI, insert included dongle into the USB 3 (for example) slot located on the back of your device.

WI-FI login info is available in your online portal, which was provided to you in the set-up email. Feel free to change login information to whatever ssid and password you prefer.

9. It's done! You are ready to roll

If you have any trouble, please feel free to let us know by calling the number listed above, or through the chat box function on our <u>website</u>.

2. Gently screw all antennas into the Bonding Gateway

Screw all six antennas onto the input ports on the back side of the Bonding Gateway. Be sure that all antennas are threaded straight and solidly. Then adjust all antennas to a 90 degree angle one by one.

4. Put MR·NET Bonding Gateway in best signal area

Find a place where you expect the cell signal in your location to be the best - usually by a window, up high, etc. Avoid metal barriers.

6. Wait up to 120 seconds for connection to be established

1-2 minutes later you should see the mode light turn solid blue, which means your Internet connection is established.

8. Connect your equipment to LAN ports or via Wi-Fi

Connect any existing equipment through Wi-Fi or directly to your device to the LAN port on the Bonding Gateway.

Please pay attention:



Technica Specifica 11-

10

Cellular Bonding

Designed to provide a simultaneous aggregated (bonded) network connection to an endpoint via several independent

Gateway

Specificati

on: 5G support:

- 5G modems (Quectel RM520N)

Supported carriers:

- Verizon, T-mobile, AT&T, Dish

- 4× 10/100/1000Mbps RJ45 LAN **Ethernet ports**

- 2× 10/100/1000Mbps RJ45 **WAN Ethernet ports**

- 1x Phoenix port

Operating conditions:

- Voltage: 12V-60V
- Power consumption: ~30 W
- Operating temperatures: 32-104° F
- Air humidity: up to 90%

Weight & Dimensions

How it

- Gross Weight: 4.5 lbs
- Net Weight: 3.2 lbs (body only)
- Package Dimensions: 12" x 10" x 6"

Operating bands: GL (Global) 5G NR:

n1/2/3/5/7/8/12/13/14/18/20/25/

29/30/38/40/41/48/66/70/71/75 /76/77/78/ 79;

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:

- B34/38/39/40/41/42/43/48; LAA: B46;

WCDMA:

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

Feature

Routing / Switching Protocols

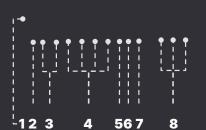
- Pv4/IPv6, Session persistent failover, NAT, GRE, Port Forwarding

IP Applications

- DDNS, DNS Proxy, DHCP / DHCPv6

VLAN & VPN

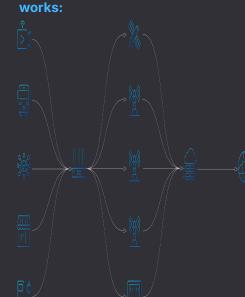
- VLAN, IPSec, VPN Failover Security
- Firewall, e2e encryption for each individual gateway



Label Key:

9

- 1. Reset button
- 2. LED indicator
- 3. 2× 10/100/1000 Mbps **WAN** ports
- 4. 4× 10/100/1000 Mbps **LAN** ports
- 5. 1x USB port
- 6. 1x Phoenix connector
- 7. 1x DC Power port (12V-60V)
- 8. 3x Nano SIM slots
- 9. 2x Wi-Fi 5.8 SMAs
- 10. 2x Wi-Fi 2.4 SMAs
- 11. 3x Removable 5G Antennas



Plug & Play

installation in under 120 seconds

Up to 5

independent internet sources

Secured

cloud infrastructure management

5G Wi-Fi 6 Up to three 2x WAN 4χΙΔΝ 2.4/5.8

Contacts:

Certificat

- support@mrn et.us
- mrnet.us
- +1(845) 666-0696
- es:
- F© © C€

Package contents:

- 1. 1x MR·NET Bonding Gateway
- 2.3×5G antennas
- 3. 2× 2.4Ghz antennas
- 3. 2× 5.8Ghz antennas 4. 1x DC Power adaptor
- 5. 1x RJ45 Patch cable

Please pay attention:

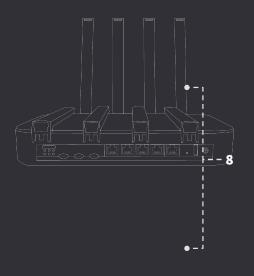
- 1. Use only power supplies with rated power. Contact us if you are unsure which power supply is suitable for your equipment. Using an unsuitable power supply may result in equipment failure.
- 2. The device's case is made of a durable metal. IP50 Class of the protection. Protected from limited dust ingress. Not protected from any liquids.
- ∴ 3. The device must be only used in strict compliance with client equipment operating, energy and safety requirements.
- ▲ 4. For the multiple-device network, large Wi-Fi coverage areas & best performance, external Wi-Fi router is recommended

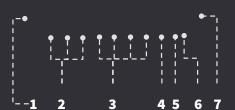
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Technical Specificati

MR·NET GO Cellular Bonding Gateway

Designed to provide a simultaneous aggregated (bonded) network connection to an endpoint via several independent wired wireless feeds.





- 1. LED indicators
- 2. 3 Nano SIM slots
- 3. 4 LAN ports (RJ45 inpu
- 4. 1 WAN port (RJ45 inpu
- 5. 1 Reset button
- 6. 1 USB interface
- 7. 1 Power DC 12V, 2.5A
- 8. Built-in antennas

MR·NET® is a registered trademark of **MOTIONRAY Inc.**





3 LTE

Up to three









2.4/5.8 4 WAN GHz

External WAN Wi-Fi IEEE 802.11AC 100BASE-T Wave 2 Protocol DSL/ standard Ethernet 2.4GHz / 5GHz bands

Have a question?

- 🖂 support@m rnet.us
- ⊕ mrnet.u
- © +1(845) 666-0696

Specificati

on: LTE support:

- 3 LTE-A cat4 modems (Quectel ec25-af)

Supported carriers:

- Verizon, T-mobile, AT&T

Operating bands:

- LTE-FDD: B2, B4, B5, B12, B13, B14, B66, B71
- WCDMA: B1, B4, B5

Ports

- 4* 10/100/1000M00s RJ45 LAN Ethernet ports
- 1* 10/100/1000Mbps RJ45 WAN Ethernet port

Operating conditions:

- Voltage: 12V 2.5A
- Power consumption: ~30 W
- Operating temperatures: 32-104°
- Air humidity: up to 90%

Weight & Dimensions

- Gross Weight: 1.6 lbs
- Package Dimensions: 13.4" x 1.4" x

Feature

S: Routing / Switching Protocols

- Pv4/IPv6, Session persistent failover, NAT, GRE, Port Forwarding

IP Applications

- DDNS, DNS Proxy, DHCP / DHCPv6

VLAN & VPN

- VLAN, IPSec, VPN Failover

Wi-Fi*

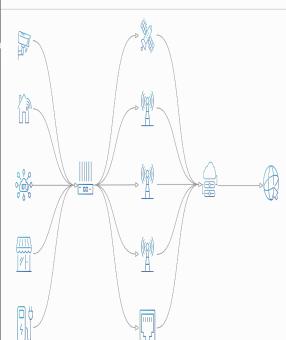
- Wi-Fi Hotspot, can be used as additional bonding input

Security

- Firewall, e2e encryption for each individual gateway

*Please note: for the multiple-device network, large Wi-Fi coverage areas & best performance, external Wi-Fi router is recommended

How it works:



Plug & Play

installation in under 90 seconds

Up to 5

independent internet sources

Secured

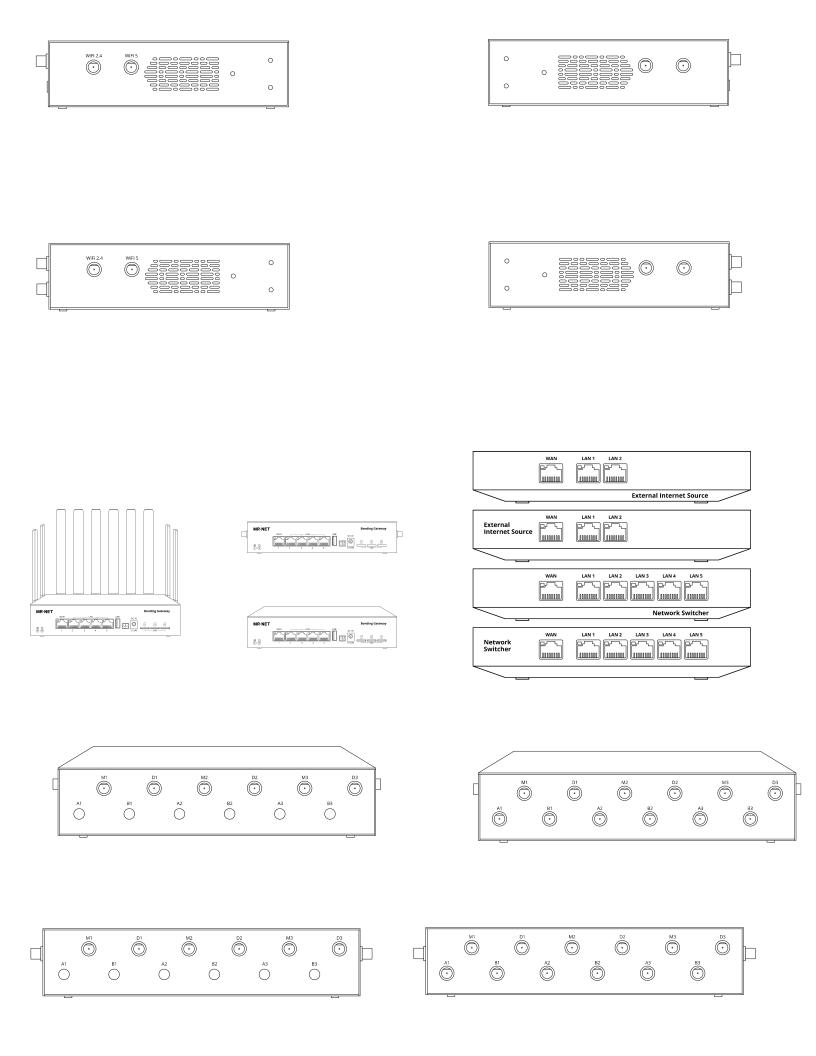
cloud infrastructure management

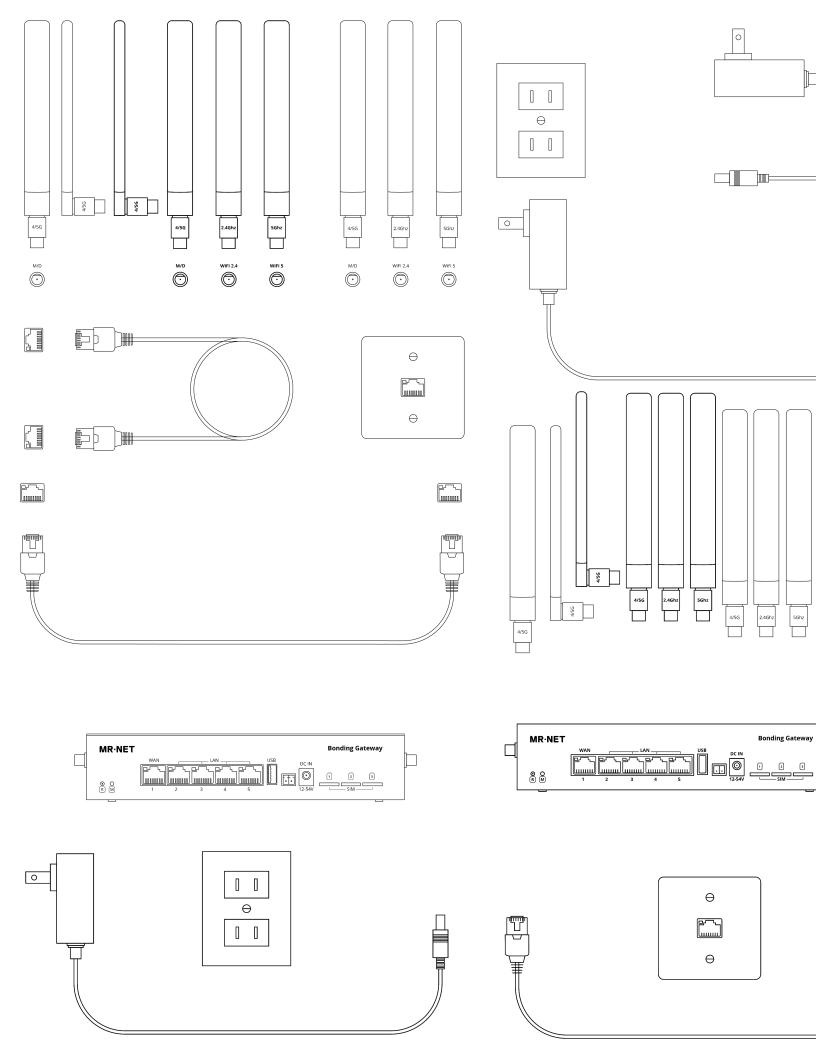
Please pay

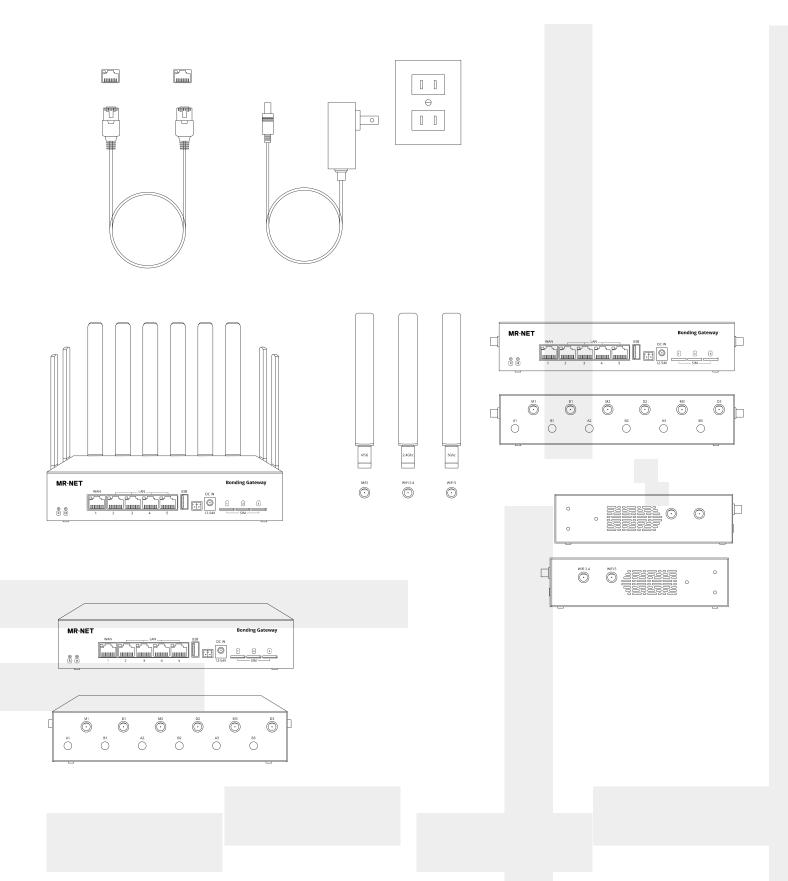
attention:

1. Use only power supplies with rated Contact power. us support@mrnet.us or via Online Chat at https://mrnet.us if you are unsure which power supply is suitable for your equipment. Using an unsuitable power supply may result in equipment failure.

- 2. The device's case is made of a durable metal. IP50 Class of the protection. Protected from limited dust ingress. Not protected from any liquids.
- 3. The device must be only used in strict compliance with client equipment operating, energy and safety requirements.

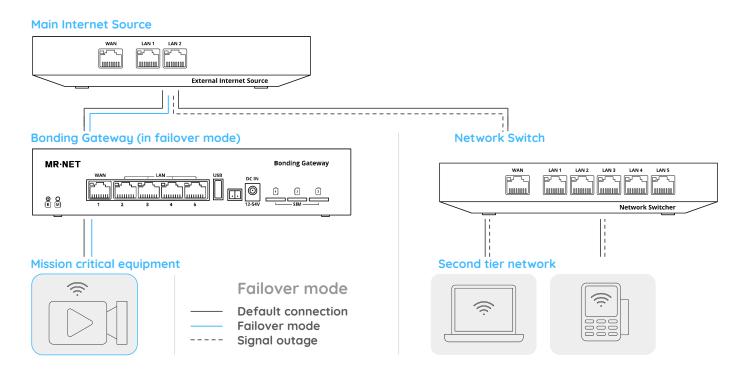




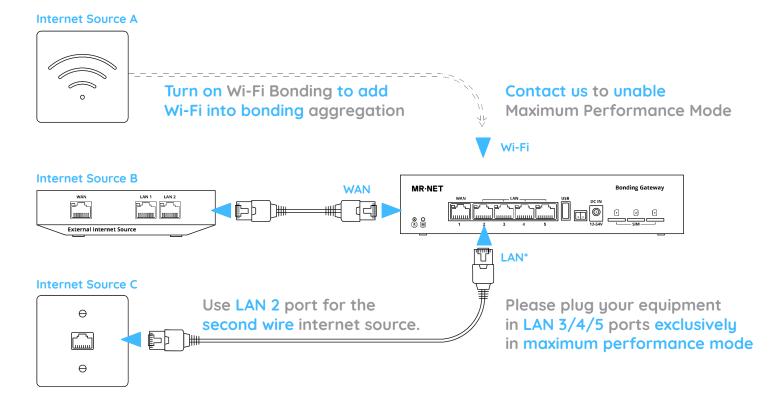


Manual Guide

5 - Failover mode

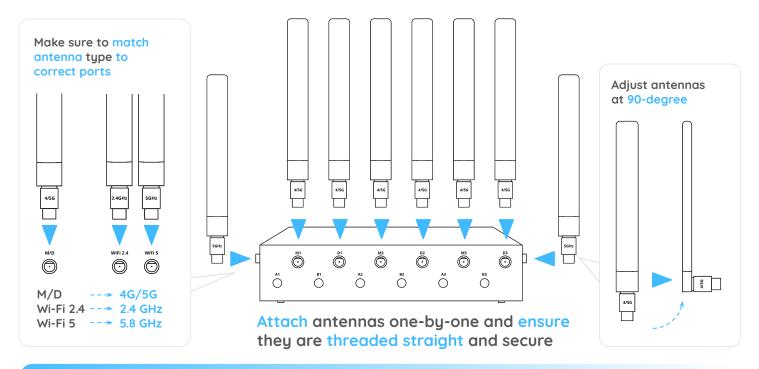


6 - Maximum performance

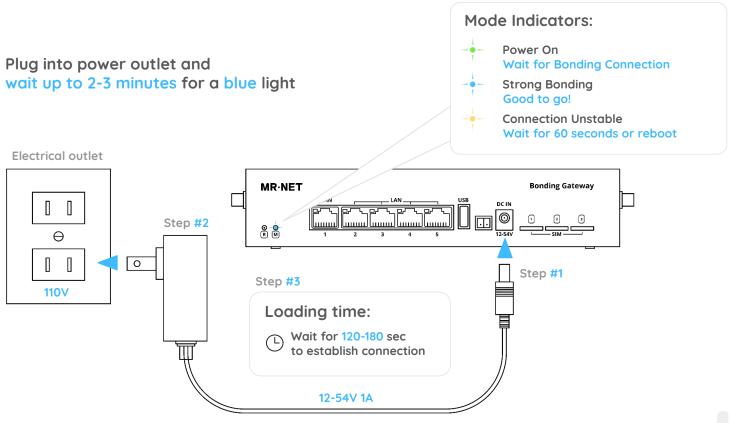


4. Operation and configuration

1 - Assemble the Bonging Gateway



2 - Power up equipment and wait for a blue light



MR·NET -4-



7. FAQ

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

1. Use certified power adapters only	Avoid uncertified power supply adapters, as they could damage the device. Use only adapters rated 9-54V, 1A. Contact us if you are unsure which power supply is suitable for your equipment.
2. Compliance with equipment	The device must be only used 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	Do not place the equipment near metal constructions, as they can block cellular signals.
5. Prefer LAN for best performance	Use LAN connections for your equipment whenever possible. Wi-Fi is an option but less ideal, especially for high-bandwidth tasks like video streaming.
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 (the main one is cellular). LAN ports are for hooking up your devices that need internet access.
7. SIM cards	Do not use our SIM cards in third-party equipment. If you want to use your own SIM cards, contact our support team to update device settings for the new SIM cards.
8. Metal Body	The device's case is made of a durable metal. IP50 Class of the protection. Protected from limited dust ingress. Not protected from any liquids.

