CoolMasterNet
Universal HVAC Bridge
Quick Installation Guide
Warning

Read these Safety Precautions carefully to ensure correct installation.

This manual classifies precautions into WARNING and CAUTION.

![Failure to follow WARNING is very likely to result in such grave consequences as death or serious injury]

**WARNING**

- Only qualified personnel must carry out the installation work.
- Ask your dealer or technical representative to install the unit.
- Any deficiency caused by your own installation may result in an electric shock or fire.
- All electrical work must be performed by a licensed technician, according to local regulations and in accordance with the instructions in the installation manual.
- Any lack of electric circuit or any deficiency caused by installation may result in an electric shock or fire.
- Do not relocate or reinstall the CoolMasterNet by yourself.
- Any deficiency caused by your own re-installation may result in an electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used and that no external forces act on terminal connections or wires. Improper wiring connections or installation may produce heat and result in fire.
- Before touching electrical parts, turn off the unit.
- To dispose of this product, consult your dealer.
Caution

Failure to follow CAUTION may result in serious injury or property damage, and in certain circumstances, may result in a grave consequence.

CAUTION

• Do not allow children to play with the CoolMasterNet and supervise them not to get access to the appliance.
• CoolMasterNet is not to be used by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
• Do not disassemble, modify or repair the CoolMasterNet.
• Any deficiency caused by your modification or repair may result in an electric shock or fire.
• Never let the CoolMasterNet to get wet.
• Water can cause damage to the CoolMasterNet, and may cause an electric shock or fire.
• Do not use flammable materials (e.g. hairspray or insecticide) near the CoolMasterNet.
• Do not clean the CoolMasterNet with organic solvents such as paint thinner. The use of organic solvents may cause cracking, damaging the CoolMasterNet, causing electrical shock or fire.
• Do not apply AC110V or AC220V to the CoolMasterNet. The maximum voltage that can be applied to the unit directly is 24V DC.
• If damaged CoolMasterNet can generate heat and cause a fire.

Caution

Failure to follow CAUTION may result in serious injury or property damage, and in certain circumstances, may result in a grave consequence.

DO NOT INSTALL THE COOLMASTERNET IN THE FOLLOWING LOCATIONS:

a. Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.

b. Where corrosive gas, such as sulfurous acid gas, is produced.

c. Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the CoolMasterNet and cause the unit to malfunction.

d. Where flammable gas may leak, where there is carbon fiber or ignitable dust suspensions in the air, or where volatile flammable such as thinner or gasoline are handle Operating the CoolMasterNet in such conditions can cause a fire.

e. High temperature area or directly flamed point. Heating and/or fire can occur.

f. Moist area, where there is exposure to water. If water enters the inside of the CoolMasterNet, it may cause electric shock and electrical components may fail.
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What's in the box

CoolMasterNet

1 RS232 DB9 Male to Female cable
1 USB-Mini USB cable
1 Ethernet cable
AC Power supply adapter 100V-240V 50/60hz to 12V DC

CoolMasterNet

1 L8 – HVAC Line 8 (USB Host)
2 Power
3 Power Plug
4 RS232 Port
5 L1 – HVAC Line 1
6 L2 – HVAC Line 2
7 RS485
8 Ethernet Port
9 GPIOs
10 L7 – HVAC Line 7
11 L6 – HVAC Line 6
12 L5 – HVAC Line 5
13 L4 – HVAC Line 4
14 USB Device Port
15 DIP Switches P, Q, R, S
16 LCD Touch Screen
Preconfigured CoolMasterNet

Type label
This label uniquely identifies the manufacturer’s configuration of CoolMasterNet.

Located on the back of the enclosure.

Type label with Configuration sticker
A preconfigured label example: configured for HT on L1

Changing HVAC System setup requires activation
For more info, see http://coolautomation.com/support/coolmasternet/activation
HVAC Line configuration

### Configuration stickers for HVAC line L1
- Daikin
- Mitsubishi Electric
- Panasonic
- Sanyo
- Toshiba
- Hitachi (JCI)
- York (US)
- York
- Haier

### Configuration stickers for HVAC line L7
- LG
- Mitsubishi Heavy
- Gree
- Midea
- Samsung
- Trane
- Trane (US)
- Kentatsu
- Chigo
- Blue Star

### Configuration stickers for HVAC line L8
- Fujitsu
- Rheem (US)
- Gree (GMV 5)

Optional Support for service and diagnostics functions.
HVAC Daikin VRV — on L1

1 HVAC Communication Terminals
Connect to the communication terminals on the HVAC equipment:

<table>
<thead>
<tr>
<th>HVAC communication terminal’s names*</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
</tr>
<tr>
<td>F2</td>
</tr>
</tbody>
</table>

* For Heat Recovery systems the connection is at outdoor units only.
* Polarity is not required on the HVAC communication line.
** Centralized (group) address required.

2 Connecting to the line plug
Secure the cables in the L1 line plug.

3 Plugging to the CoolMasterNet
Insert the plug in to the CoolMasterNet L1 socket

4 Check DIP Switches are set correctly
Dip switches setup for VRV HVAC system on L1
HVAC Daikin Non-VRV — on L1

For Daikin Non-VRV equipment, DC voltage supply by CoolMasterNet might be required for proper operation.

⚠️ Make sure CoolMasterNet is disconnected from power and HVAC line.

1. Measure DC voltage on HVAC comm. line L1

2. If no 14-16V DC voltage change the dip switches as shown below:
   Requires Activation Command
   www.coolautomation.com/support/activation

3. Turn ON the power for CoolMasterNet and connect it to HVAC line.

4. Connect to the communication terminals on the HVAC equipment and secure the cables in the L1 line plug.

5. Insert the plug in to CoolMasterNet L1 socket.

⚠️ Changing the dip switches while DC voltage is present on L1, may damage the CoolMasterNet.
HVAC Mitsubishi Electric VRF — on L1

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:

   HVAC communication terminal’s names*
   
<table>
<thead>
<tr>
<th>M1</th>
<th>M2</th>
<th>M3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitsubishi Electric</td>
<td>Max. 50 indoor units</td>
<td></td>
</tr>
</tbody>
</table>

   * For Heat Recovery systems the connection is at outdoor units only.
   * Polarity is not required on the HVAC communication line.

2 Connecting to the line plug
   Secure the cables in the L1 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L1 socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L1
For Mitsubishi Electric Non-VRF equipment, DC voltage supply by CoolMasterNet might be required for proper operation.

⚠️ Make sure CoolMasterNet is disconnected from power and HVAC line.

1. Measure DC voltage on HVAC comm. line L1

2. If no 28-30V DC voltage change the dip switches as shown below. Requires Activation Command www.coolautomation.com/support/activation

3. Turn ON the power for CoolMasterNet and connect it to HVAC line.

4. Connect to the communication terminals on the HVAC equipment and secure the cables in the L1 line plug.

5. Insert the plug in to CoolMasterNet L1 socket.

⚠️ Changing the dip switches while DC voltage is present on L1, may damage the CoolMasterNet.
HVAC Panasonic/Sanyo VRF — on L1

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC communication terminal’s names*

<table>
<thead>
<tr>
<th>U1</th>
<th>U2</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Panasonic / Sanyo</td>
</tr>
<tr>
<td></td>
<td>Max. 64 indoor units</td>
</tr>
</tbody>
</table>

   * For Heat Recovery systems the connection is at outdoor units only.
   * Polarity is not required on the HVAC communication line.

2. Connecting to the line plug
   Secure the cables in the L1 line plug.

3. Plugging to the CoolMasterNet
   Insert the plug into the CoolMasterNet L1 socket.

4. Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L1

Panasonic / Sanyo HVAC Terminal
HVAC Toshiba VRF — on L1

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC communication terminal’s names*

   | U1 | Toshiba
   | U2 | Max. 64 indoor units

   * For Heat Recovery systems the connection is at outdoor units only.
   * Polarity is not required on the HVAC communication line.

2. Connecting to the line plug
   Secure the cables in the L1 line plug.

3. Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L1 socket

4. Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L1

   ![DIP Switches Diagram]
HVAC Hitachi (JCI) VRF — on L1

1 HVAC Communication Terminals
Connect to the communication terminals on the HVAC equipment:
HVAC communication terminal’s names*

1
2

Hitachi
Max. 160 indoor units

* For Heat Recovery systems the connection is at outdoor units only.
* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug
Secure the cables in the L1 line plug.

3 Plugging to the CoolMasterNet
Insert the plug in to the CoolMasterNet L1 socket

4 Check DIP Switches are set correctly
Dip switches setup for VRF HVAC system on L1
HVAC York (US) VRF — on L1

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC communication terminal’s names*

   1 York (US) Max. 160 indoor units

   * For Heat Recovery systems the connection is at outdoor units only.
   * Polarity is not required on the HVAC communication line.

2 Connecting to the line plug
   Secure the cables in the L1 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L1 socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L1

   ![DIP Switch Diagram]
HVAC York VRF — on L1

1 HVAC Communication Terminals
Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal’s names*

* For Heat Recovery systems the connection is at outdoor units only.
* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug
Secure the cables in the L1 line plug.

3 Plugging to the CoolMasterNet
Insert the plug in to the CoolMasterNet L1 socket

4 Check DIP Switches are set correctly
Dip switches setup for VRF HVAC system on L1

York HVAC Terminal
HVAC Haier VRF — on L1

1. **HVAC Communication Terminals**
   Connect to the communication terminals on the HVAC equipment:
   
   HVAC communication terminal’s names*  
   
   ![Diagram](image)

   * For Heat Recovery systems the connection is at outdoor units only.
   * Polarity is not required on the HVAC communication line.

2. **Connecting to the line plug**
   Secure the cables in the L1 line plug.

3. **Plugging to the CoolMasterNet**
   Insert the plug in to the CoolMasterNet L1 socket

4. **Check DIP Switches are set correctly**
   Dip switches setup for VRF HVAC system on L1
HVAC Mitsubishi Heavy VRF — on L7

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor or indoor

2. Connecting to the line plug
   Secure the cables in the L7 line plug.

3. Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4. Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC LG VRF — on L7

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor
   - InterA
   - InterB
   Max. 128 indoor units

2. Connecting to the line plug
   Secure the cables in the L7 line plug.

3. Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4. Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only
   A Gree B
   Max. 16 indoor units

2 Connecting to the line plug
   Secure the cables in the L7 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC Midea VRF — on L7

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only
   ![Diagram of HVAC terminal with labels X, Y, and E]
   Midea Max. 64 indoor units

2 Connecting to the line plug
   Secure the cables in the L7 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
   ![Diagram showing DIP switches]
HVAC Samsung VRF — on L7

1 HVAC Communication Terminals
Connect to the communication terminals on the HVAC equipment:
HVAC outdoor only

2 Connecting to the line plug
Secure the cables in the L7 line plug.

3 Plugging to the CoolMasterNet
Insert the plug in to the CoolMasterNet L7 socket

4 Check DIP Switches are set correctly
Dip switches setup for VRF HVAC system on L7
HVAC Trane VRF — on L7

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only
   X Y E
   Trane Max. 64 indoor units

2 Connecting to the line plug
   Secure the cables in the L7 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC Trane (US) VRF — on L7

1 HVAC Communication Terminals
   Connect to the communication terminals on
   the HVAC equipment:
   HVAC outdoor only

2 Connecting to the line plug
   Secure the cables in the L7 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7
   socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC Kentatsu VRF — on L7

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only
   X
   Y
   E
   Kentatsu
   Max. 64 indoor units

2 Connecting to the line plug
   Secure the cables in the L7 line plug.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4 Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC Chigo VRF — on L7

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only

   ![Connection diagram]

   X
   Y
   E
   Chigo
   Max. 64 indoor units

2. Connecting to the line plug
   Secure the cables in the L7 line plug.

3. Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4. Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC Blue Star VRF — on L7

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only

2. Connect DVRF Modbus Converter
   Secure the cables from Outdoor in RS485
   Secure cables in Output 3 / Modbus to CoolMasterNet.

3. Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L7 socket

4. Check DIP Switches are set correctly
   Dip switches setup for VRF HVAC system on L7
HVAC Gree GMV5 VRF — on L8

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC outdoor only
   
   G1  on  Gree GMV5
   G2  Max. 64 indoor units

2 Connecting to the CMNET-GR-GMV5
   CoolAutomation USB Network Interface (CMNET-GR-GMV5) adapter is required for connecting up to two Gree GMV5 VRF lines. This adapter includes a CAN bus 120 Ω resistor.

3 Plugging to the CoolMasterNet
   Insert the plug in to the CoolMasterNet L8 (USB)

4 Check DIP Switches are set correctly
   Dip switches setup for GMV5 VRF HVAC system on L8.
HVAC Fujitsu VRF — on L8

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:

   HVAC communication terminal names:

<table>
<thead>
<tr>
<th>X1</th>
<th>X2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fujitsu</td>
<td>Max. 128 indoor units</td>
</tr>
</tbody>
</table>

2 Connecting to the Echelon adapter
   Echelon U10 USB Network Interface (TP/FT-10) adapter is required for connecting to Fujitsu VRF. (Not supplied by CoolAutomation)

3 Connect Echelon via USB Extension cable
   Connect the USB Extension cable (A-Male to A-Female) to the Echelon adapter. (Not supplied by CoolAutomation).

4 Plug in to the CoolMasterNet L8
   Insert the USB cable in to the L8 USB host.
HVAC Rheem VRF — on L8

1. HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:

   HVAC communication terminal names:

   | X1 | Rheem Max. 128 indoor units |
   | X2 |

2. Connecting to the Echelon adapter

   Echelon U10 USB Network Interface (TP/FT-10) adapter is required for connecting to Rheem VRF. (Not supplied by CoolAutomation)

3. Connect Echelon via USB Extension cable
   Connect the USB Extension cable (A-Male to A-Female) to the Echelon adapter. (Not supplied by CoolAutomation).

4. Plug in to the CoolMasterNet L8
   Insert the USB cable in to the L8 USB host.

Rheem HVAC Terminal
HVAC Rheem VRF — on L8

1 HVAC Communication Terminals
   Connect to the communication terminals on the HVAC equipment:
   HVAC communication terminal names:
   - X1
   - X2
   Rheem
   Max. 128 indoor units

2 Connecting to the Echelon adapter
   Echelon U10 USB Network Interface (TP/FT-10) adapter is required for connecting to Rheem VRF. (Not supplied by CoolAutomation)

3 Connect Echelon via USB Extension cable
   Connect the USB Extension cable (A-Male to A-Female) to the Echelon adapter. (Not supplied by CoolAutomation).

4 Plug in to the CoolMasterNet L8
   Insert the USB cable in to the L8 USB host.
How to change the brand of a specific line

When in need to change the HVAC brand type on a specific line, please follow the below procedure on CoolMasterNet screen:

1. Go to Settings

2. Select the HVAC Line you want to configure

3. Configure the HVAC line type

4. Make sure the DIP switches are set properly for the brand (according to the details in the brand relevant section above).

5. You will also have a red warning message if DIP switch are set

6. Reset is required to make change effective
CoolMasterNet installation complete

CoolMasterNet Unit screen
After successful installation, units screen will show all the detected indoor units and their statuses.

1. Active HVAC line (DK 9/10) (Groups/Units)
2. Inactive HVAC line
3. All ON/OFF operation button
4. Scrollbar
5. Connected indoor unit with it’s address and Set-Point temperature indication.
6. Indoor unit operation button (on/off)
7. Service settings button
8. CoolMasterNet MAC address
9. CoolMasterNet IP address
10. CoolRemote connectivity status
   - Connected - Communicating
   - Connected - Idle
   - Disconnected - with error code

To download the latest firmware www.coolautomation.com/support/coolmasternet
Firmware update FAQ www.coolautomation.com/support/faq/coolmasternet
Home Automation, BMS & CoolRemote

RS232  RS485  Ethernet

Router

Internet

Home Automation / BMS

CoolRemote App
Power Supply

**Option A**
AC Power supply adapter
(Included in the Box)

- 12V DC
- 100V-240V AC
  50/60hz

**Option B**
Direct DC power supply

- 12V-24V DC
- Direct DC power supply from local electrical panel
CoolRemote App

Please connect the device to the Internet for successful registration and setup

Option A - Automatic

1. Scan the QR code from the type label to auto fill-in all the CoolMasterNet details for CoolRemote App.

2. Register your user-name (email) and password to remotely control & monitor all your HVAC units.

Option B - Manual

1. Go to: https://coolremote.net/register

2. Enter CoolMasterNet S/N number and PIN code, printed on the sticker.

3. Register your user-name (email) and password to remotely control & monitor all your HVAC units.
Appendix: GPIOs application

All On/Off operation by external signal

All On

All Off
Mounting on a DIN rail

1. Place the device mounting feet on the DIN rail

2. Push on the lower part of the device onto the DIN rail to lock it in place

To unmount, pull the mounting lock down.
Mounting on a wall

For mounting the CoolMasterNet with wall screws, please see attached template with 1:1 dimensions.
Quick Start with your CoolMasterNet

START HERE

www.coolautomation.com/quickstart

Scan the code and go to the link above to get started with CoolMasterNet Quick installation guide.
Getting to Know your CoolMasterNet

1. **L8 – HVAC Line 8 (USB Host)**
   - Fujitsu
   - Rheem (US)

2. **Power**

3. **Power Plug**

4. **RS232 Port**

5. **L1 – HVAC Line 1**
   - Daikin
   - Mitsubishi Electric
   - Panasonic
   - Sanyo

6. **L2 – HVAC Line 2**
   - Same HVAC compatibility as L1

7. **RS485**

8. **Ethernet Port**

9. **GPIOs**

10. **L7 – HVAC Line 7**
    - LG
    - Mitsubishi Heavy
    - Gree
    - Midea
    - Samsung
    - Trane / Trane (US)
    - Kentatsu
    - Chigo

11. **L6 – HVAC Line 6**
    - Same HVAC compatibility as L7 *

12. **L5 – HVAC Line 5**
    - Same HVAC compatibility as L7 *

13. **L4 – HVAC Line 4**
    - Same HVAC compatibility as L7 *

14. **USB Device Port**

15. **DIP Switches P, Q, R, S**

16. **LCD Touch Screen**
Need more help?

Visit us: https://coolautomation.com/support