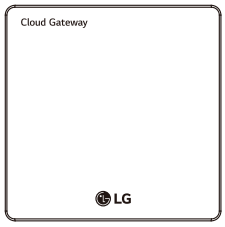
2.3.7 Cloud Gateway

- Model name : PWFMDB200 (LG Wi-Fi云网关*)

It is a communication gateway that enables remote control/monitoring and maintenance by linking the product to the ThinQ server and BECON cloud server through wired/wireless LAN.
You can conveniently remote control/monitoring up to 16 indoor units through the ThinQ app.
* This name is only sold and used in China.

2.3.7.1 Specifications & Dimensions

■ Features



■ Accessory



Wall installation plate

■ Product Specifications

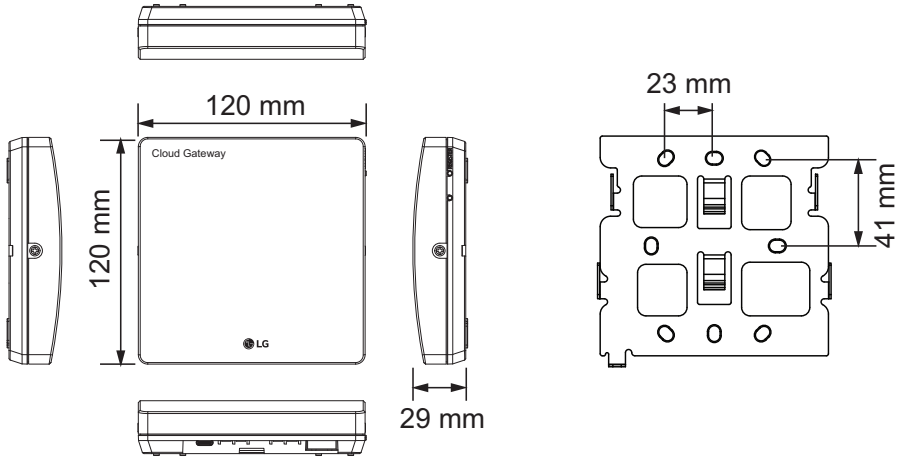
Item		Specification	Etc
Power Supply		12 V ⎓	Max. 50 m (Use of the output power of the outdoor unit.)
Power consumption		5W	
Operating temperature		0~40°C	
Storage temperature		-20~60°C	
Communication	Ethernet	1EA	Max. 50 m (10/100 Mbps)
	Wi-Fi	1EA	802.11b/g/n, 2.4 GHz
	RS485	1EA	Max. 1 km (LGAP)
Size		120 x 120 x 29	mm

■ Wireless standard

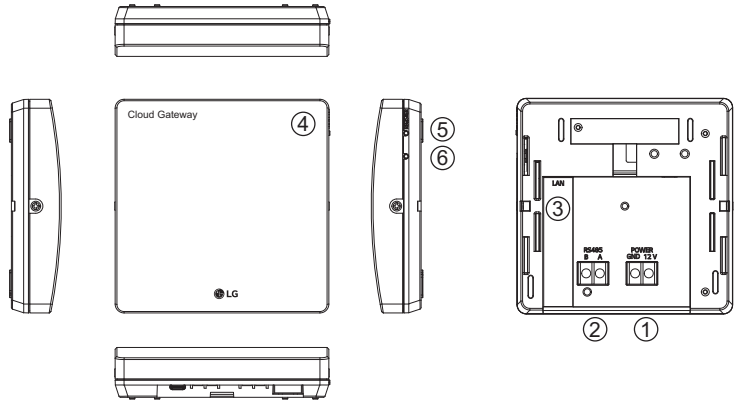
1. EU : CE RED
2. India : WPC
3. Vietnam : VNTA not applicable (Power below 60mW(17dBm))

2.3 Product Description

■ Dimensions



2.3.7.2 Port and Function



Number	Classification	Specifications	Other types
①	Power	12 V ⎓	Use of the output power of the outdoor unit.
②	Communication	RS485	Max. 1 km
③		Ethernet	10/100 Mbps
		Wi-Fi	2.4 GHz
④	LED	2ea	Left (Product mode, red) / Right (Power, green)
⑤	Switch	Change product mode	Registration (LED dimming) ↔ Use (LED lighting)
⑥		Reset the power	-
	Temperature Spec.	0 °C ~ 40 °C	Use Temperature
	Storage Temperature	-20 °C ~ 60 °C	Storage Temperature

2.3 Product Description

2.3.7.3 Function List

Function	Description	ThinQ	TMS (LG BECON Cloud) 1)
Interlocking products	Multi V	●	●
	GHP	●	●
	Multi	●	●
	Single	●	●
	ERV	x	●
	Heating	x	● 2)
Remote control	Operation Start/Stop	●	●
	Operation Mode	●	●
	Target Temperature	●	●
	Fan speed	●	●
	Swing	●	●
	Air Purify	●	●
etc	Schedule	●	x
	Electricity Monitoring	x	●
	History	x	●
Maintenance	Smart Diagnosis	●	x
	Cycle monitoring	x	●

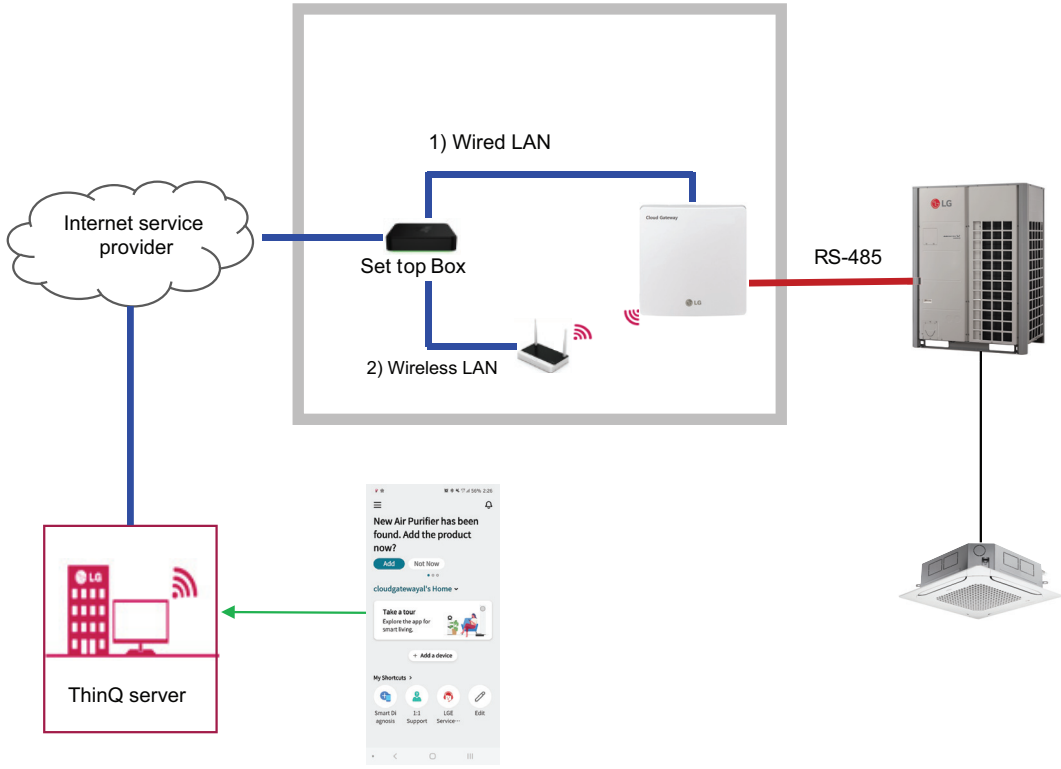
❊ ● : Applied, x : Not Applied

1) Depending on the region, TMS may not be available. Please contact to TMS administrator for checking availability.(BECONcloud-biz@lge.com)
2) Only for Therma V

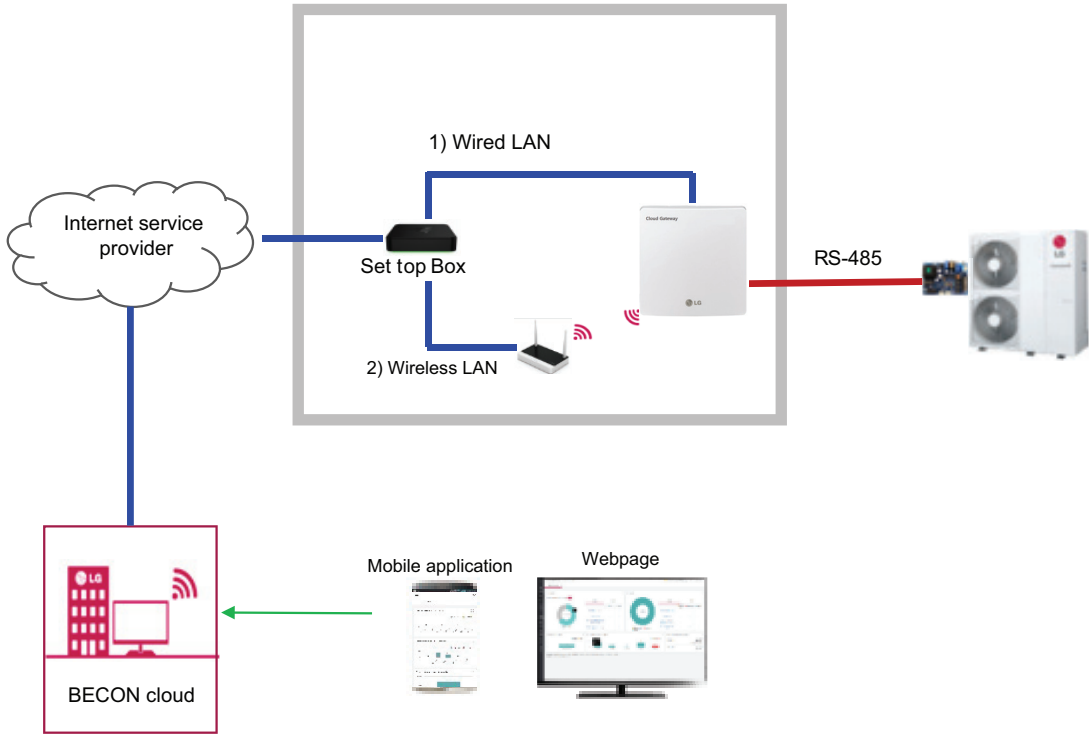
2.3 Product Description

2.3.7.4 Field Wiring Diagram

■ For ThinQ connection



■ For BECON cloud connection



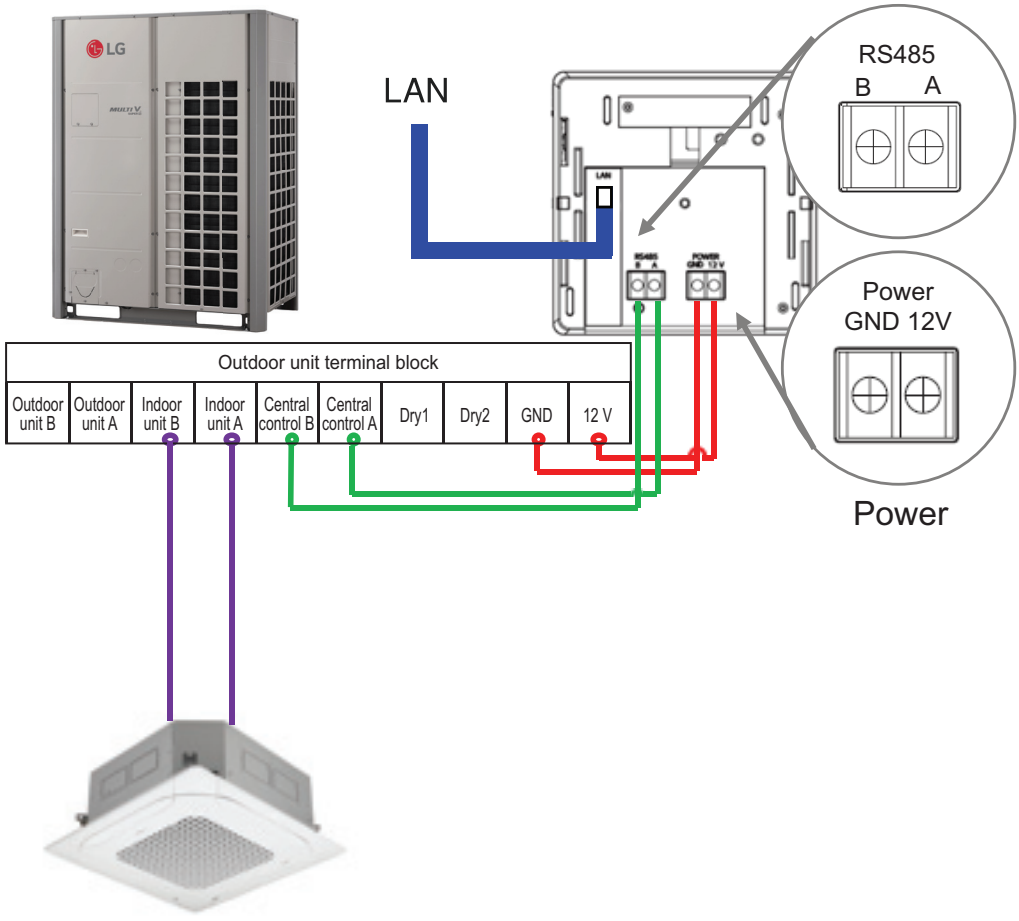
2.3 Product Description

NOTE

- The Wi-Fi name and password are on the wireless router. Wi-Fi should only select 2.4 GHz.
  The modem mounted on the home appliance does not support 5 GHz and cannot connect the home appliance to the wireless router.
- WPA2 is recommended for the type of authentication and encryption of the wireless router.
- Wireless network connection quality can be affected by the surrounding wireless environment. If a failure occurs, contact internet service provider.
- When you can't connect home appliance's modem to wireless router, use the following methods to solve.
  - When a firewall is set on the wireless router, proceed after registering or releasing exceptions.
  - When the Wi-Fi name is in Korean or special characters, set it as English or numeric, or combination of English and numeric characters.
    When the name contains Korean or special characters, you cannot connect.
- When the distance between the product and the wireless router is too far, the signal strength is weakened. A weak signal can take a lot of time or fail to register the product.
- When changing the wireless router, internet service provider, or password, delete the registered product in LG ThinQ and re-register it.
- The content of this manual may vary depending on the version of the LG ThinQ application and may change without notifying the user.
- If there is no 485 communication port on the outdoor unit, PI485 should be prepared.

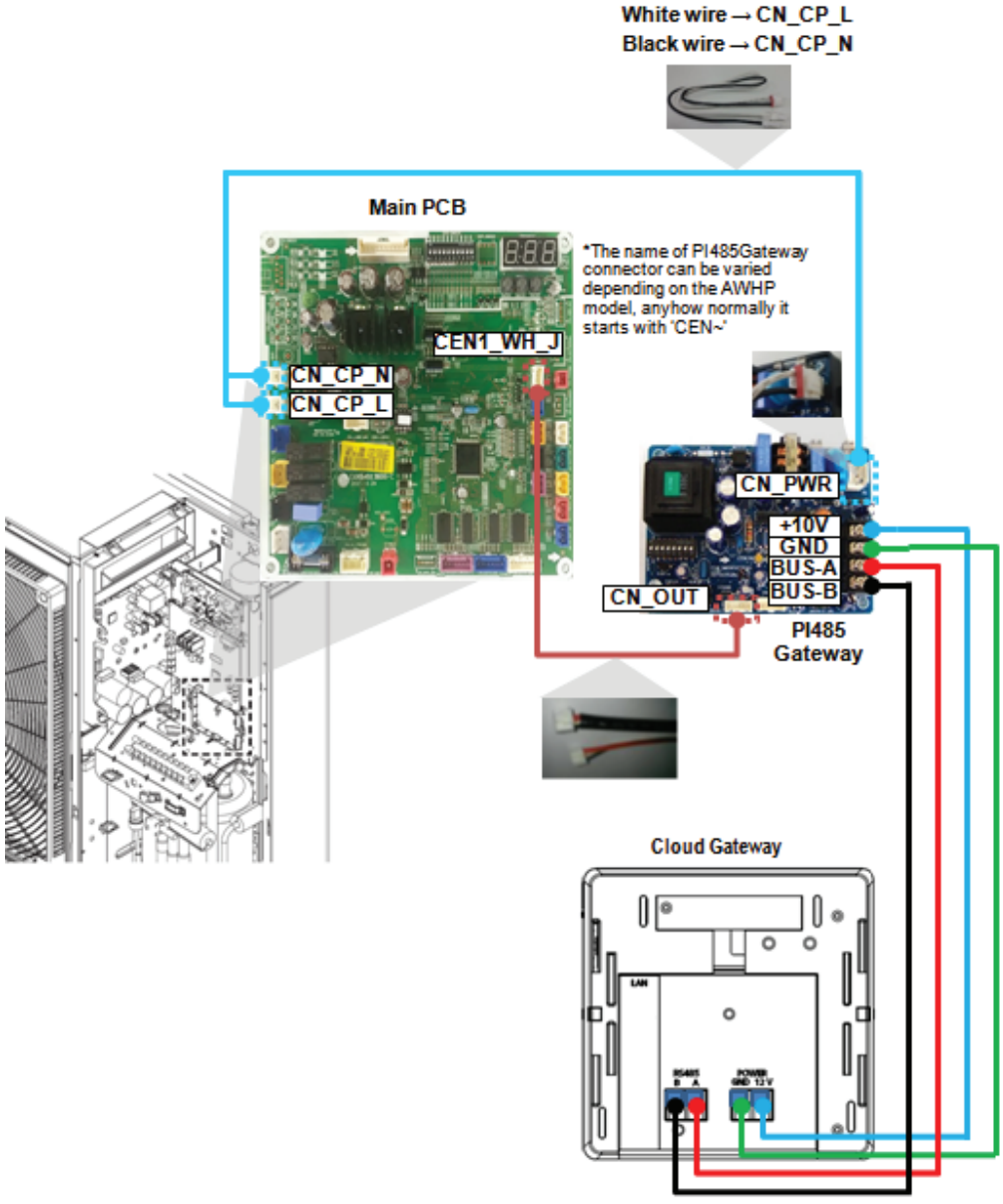
2.3.7.5 Connecting

■ For ThinQ connection



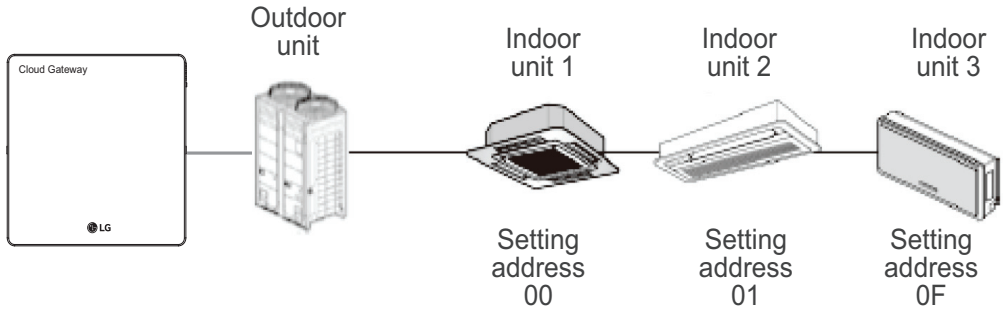
2.3 Product Description

■ For BECON cloud connection (Only for Therma V)



2.3 Product Description

■ Installation environment inspection and equipment address setting

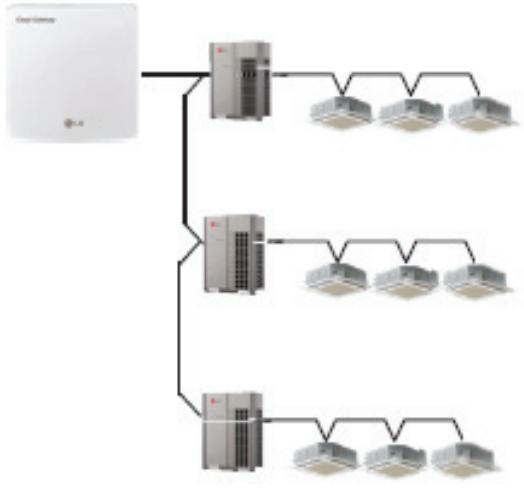


NOTE :

- The maximum allowable communication length guaranteed by LG Electronics is 1000m. In other words, the controller and the farthest installed device must be installed within the distance of 1000m.
- It is recommended to use the communication cable which is more than 0.75 mm^2.
- Set the address that does not overlap within the same device type.
- When multiple different wireless LAN equipment are connected to the router to which you are connecting the controller, the wireless LAN malfunction may be caused (Such as delayed operation speed, disconnected, etc.) In this case, it is recommended to use a separate router to connect the controller.

■ Connection of RS485 communication line

One unit of controller can connect up to 16 indoor units. When multiple devices are connected, they must be connected in a BUS format. Otherwise, the controller may cause malfunction.



<Correct example : RS485 BUS format connection>



<Incorrect example : RS485 STAR format connection>

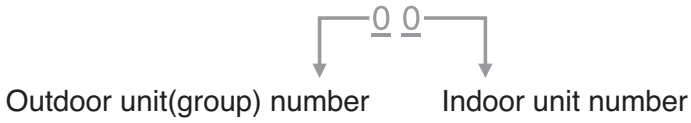
2.3 Product Description

■ Indoor unit central control address setting

First, you need to grant address that does not overlap to each equipment (indoor unit, ventilation equipment) considering the entire installation composition connected to one controller.
The address of the device must be set within the range of 00~0F.

Note : Granting outdoor unit and indoor unit number

If the outdoor unit product is Multi V, it is recommended to set the first digit of the address as the outdoor unit number, and classify the second digit as the indoor unit number, so that the system composition and division can be easily identified during the address setting.



Note : Setting method of indoor unit central control address

The central control address setting method may be different according to the indoor unit product or remote controller type, so proceed the address setting by referring to the indoor unit product or wired remote controller manual.