



EN

HASS Converter User Manual

Model name: MIM-S10UN

Safety Precautions

This installation guide provides information on the HASS Converter intended to connect to Samsung system air conditioner indoor units. Read this installation guide carefully and use the product correctly.

⚠ WARNING

Failure to follow instructions is likely to result in death or serious injury.

⚠ CAUTION

Failure to follow instructions is likely to result in injury or property damage.

⚠ WARNING

- Install the product firmly in a location that can support the product weight.
 - If installed in a location that is not stable, the product may fall and become damaged.
- Install by connecting to a rated power supply.
- There is a risk of fire or product damage.

Check that the installation has been performed properly according to the instructions in the installation guide.

- Incorrect installation cause electric shock or fire.

⚠ CAUTION

Do not install the product in a location with flammable gas leaks or a possibility of leaks.

- There is a risk of fire or explosion.

- Do not install the product in a location exposed to oil or steam.
- If the product is installed in a location exposed to oil, steam or sulphuric acid gas, its components may become damaged or may malfunction.

When installing power lines, make sure that they are free from excess tensile force.

- Power lines may break, leading to fire.

Install the product in a location with an ambient temperature of 0–39 °C that is not exposed to direct sunlight.

- There is a risk of electric shock or product malfunction.

Do not install the product in a location where acidic or alkaline solutions or special-purpose sprays are used.

- There is a risk of electric shock or product malfunction.

If installing the product in a hospital or other location where different devices are used together, make sure that the product does not interfere with other devices.

- The product may malfunction.

Do not let water enter the product.

- There is a risk of electric shock or fire.

Do not press buttons with a sharp object.

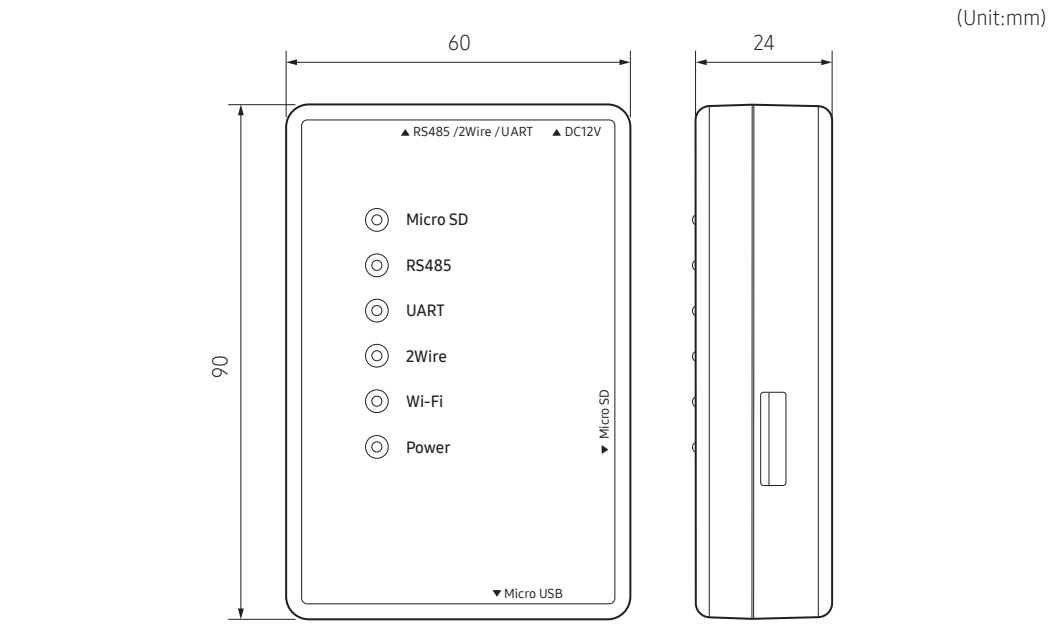
- There is a risk of electric shock or damage to components.

Check before Installation

Contents of the package

Item	HASS Converter	Power cable	Communication cable	USB cable	USB-C to USB-A adapter	User Manual
Quantity	1	1	1	1	1	1
Shape						

External Dimensions



Equipment Radio Type : Transceiver

Frequency Band

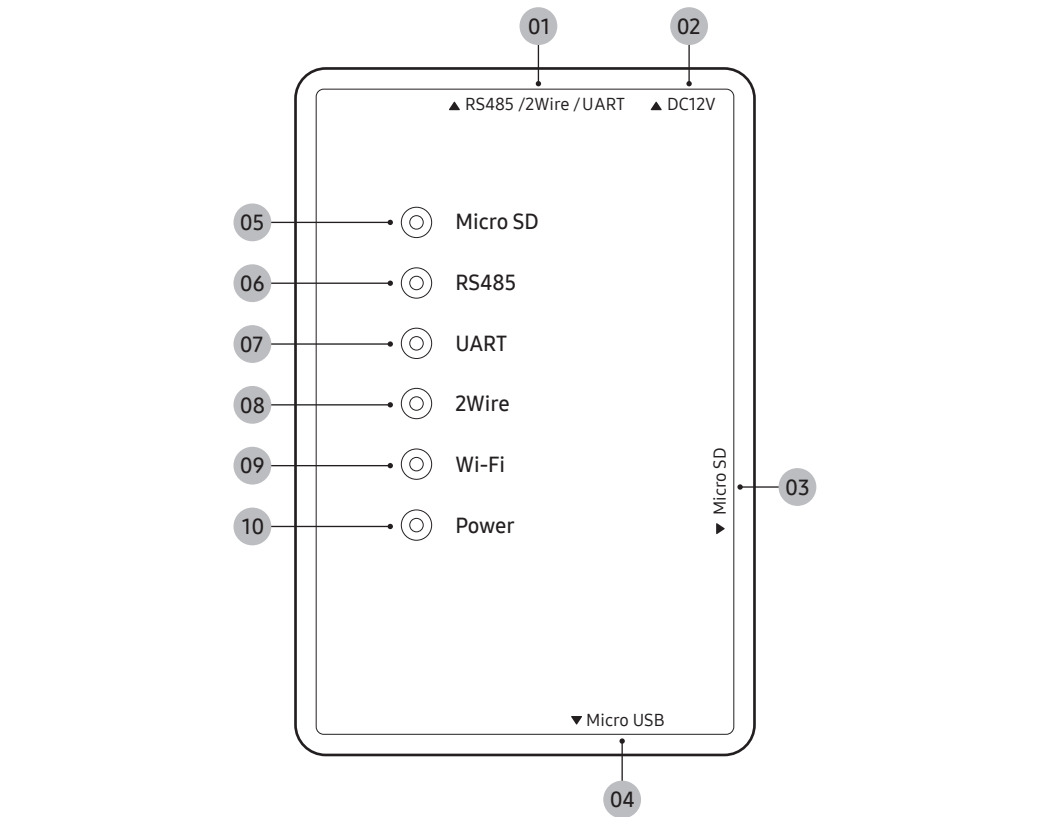
- BLE: 2402 ~ 2480MHz
- WLAN 2.4GHz: 2 412 MHz ~ 2 462 MHz
- WLAN 5GHz: 5 180 MHz ~ 5 320 MHz , 5 500 MHz ~ 5 700 MHz , 5 745 MHz ~ 5 825

MHz Antenna Type : PCB Antenna

Type of Modulation

- BLE: GFSK, WLAN 2.4GHz : DSSS, OFDM , WLAN 5GHz:OFDM

Names of Parts



Item	Name	Contents
1	RS485/2Wire/UART	Communication port (8-pin)
2	DC 12V	Power supply port (DC 12 V)
3	Micro SD	Micro SD card port
4	Micro USB	Micro USB port
5	Micro SD	Micro SD card connection status
6	RS485	RS485 communication connection status
7	UART	UART connection status
8	2Wire	2Wire connection status (F3, F4)
9	Wi-Fi	Wi-Fi connection status
10	Power	Power (DC 12 V) connection status

FCC Part 15 Compliance information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

The antenna(s) used for this device must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: 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:

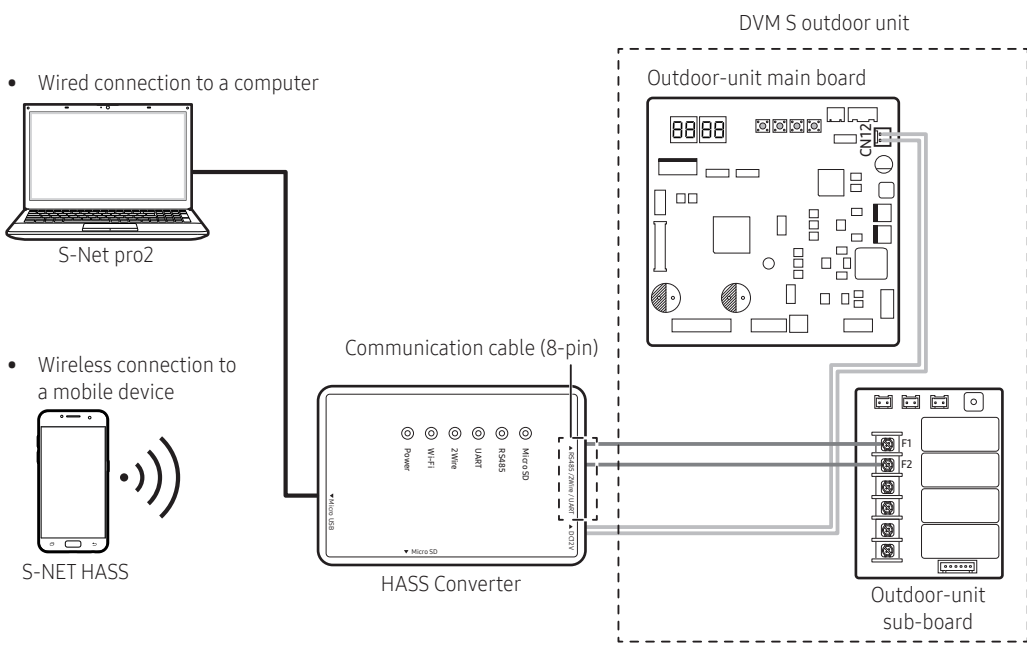
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important: Changes or modifications to this product not authorized by Samsung Electronics Co., Ltd. could void the electromagnetic compatibility (EMC) and wireless compliance of the device and negate your authority to operate the product.

This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

Connecting the HASS Converter

Installation example (when connecting to a DVM S outdoor unit's F1 and F2)



- 1 Connect the communication cable that came with the product package to the HASS Converter and the Outdoor unit.
- 2 Insert a Micro SD card.
 - To use the black box function (to save communication data), a Micro SD card is required.
 - The Micro SD card is not included in the product package. Only Micro SD cards with a capacity between 8GB and 32GB are supported.
- 3 Supply power to the HASS Converter.
 - When using the power supplied by Outdoor unit.
 - Use the power cable provided as a part of the package. (DC 12V)

⚠ CAUTION

When connecting the mobile device and the HASS Converter via USB cable, make sure to connect the USB cable to the HASS converter first before connecting the power supplied by the outdoor unit to the converter.(This is necessary to ensure proper communication)

⚠ CAUTION

- It is not possible to connect RS485, 2Wire and UART simultaneously.
- When connected to a mobile device, it is not possible to use a Wi-Fi connection and USB cable connection simultaneously.
 - To convert from the Wi-Fi connection to the USB cable connection, disconnect and reconnect the power supply to the HASS Converter.

IC approval

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licencecontenudans le présentappareilestconforme aux CNR d'Innovation, Sciences et Développementéconomique Canada applicables aux appareils radio exempts de licence. L'exploitationestautorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire debruitage;
- (2) L'appareildoitaccepter toutbruitageradioélectriquesubi, même si le brouillageest susceptible d'encompromettre lefonctionnement.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.