SAMSUNG

ASSY Wi-Fi Kit 2.0

Model Name : MIM-H04EN MIM-H04RN MIM-H04N MIM-H04UN MIM-H04NDZ MIM-H04AN MIM-H04CN MIM-H05UN

SERVICE Manual



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1. Wi-Fi Kit 2.0 Installation

1-1 Wi-Fi Kit installation

- To ensure smooth operation, there should be no obstacle between the Wi-Fi Kit and wireless router that may interfere with communication. When the Wi-Fi Kit is too far from a router or there are potentially interfering elements between them, it may cause problems with the performance of the Wi-Fi Kit that cannot be resolved by customer services.
 - Place the Wi-Fi Kit in an area where you can easily press the AP button for device verification.
 - Do not install the Wi-Fi Kit in an area where it may be exposed to moisture or impact.
 - Operating temperature: 0 ~ 40 °C (32 ~ 104 °F), Operating humidity: 30-90 % (relative)
- 1. Use a flathead screwdriver to turn each of the square holes at the lower part of the Wi-Fi Kit and remove the back cover.



* Push both latches at the same time.

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NOTE

• Use a flathead screwdriver to turn the square hole at the upper part of the fixing hook for easy removal.

2. Arrange the power and communication cables along the back cover.



<Installation on the wall>

(Installation in the wall)

- 3. Use two or more screws to fix the back cover to the wall. Connect the power cables (V1, V2) and communication cables (F1, F2) to the terminals on the back of the front cover with adjusting to a suitable length.
- When connecting the power cables to V1 and V2, fasten the PCB terminal screws (CN5) to a torque of 6 N·cm or less.
 Screw size: M3 x 6



D NOTE

• You can connect up to 16 indoor units to a Wi-Fi Kit.



ltem	Contents	ltem	Contents
a	Power/communication terminals	d	LED
b	Tracking/Reset button	e	Network PBA
©	Micro SD card slot	ſ	Interface module PBA

5. Assemble the Wi-Fi Kit again.



1) Connecting to a single outdoor unit (F1-F2)



2) Connecting to multiple outdoor units (R1-R2)



- Connect R1 and R2 on the outdoor unit to F1 and F2 of the Wi-Fi Kit.
- Connect the power cables to V1 and V2 of the indoor unit.
- Other controllers (e.g. touch centralized controller, DMS) can be installed together.







- Connect R1 and R2 on the outdoor unit to F1 and F2 of the Wi-Fi Kit.
- Connect the power cable to V1 and V2 of the the indoor unit or ERV.
- Other controllers (e.g. touch centralized controller, DMS) can be installed together.

* For indoor units with no V1 and V2, use the external control line 2 for SUB PBA (inside the indoor unit) for power supply.



6. Activate the Wi-Fi Kit.

- When power is supplied, all indicators on the Wi-Fi Kit illuminate until the system boots completely.
- After the system operates, tracking is performed automatically.

7. Tracking

- * Tracking: Detects indoor units that are connected to the Wi-Fi Kit. The indoor unit detects the connection to the Wi-Fi Kit. Tracking is required to monitor or control the system air conditioner by using the Wi-Fi Kit.
- ・ The Wi-Fi Kit automatically performs tracking when activated. The (心) (奈) indicators on the Wi-Fi Kit blink while in tracking.
- When no indoor unit is detected by tracking, the (\bigcirc) indicator blinks for 10 seconds and the Wi-Fi Kit attempts the tracking again. In this case, make sure that the communication cables between the indoor and outdoor units are connected properly.
- When there happens any change in the installation of indoor and outdoor units, manually run the tracking by pressing the (SW3, (b)) button inside the Wi-Fi Kit.

• When the tracking is completed but all the connected indoor units have the central control option disabled, the (r) indicator illuminates for 10 seconds and the (\bigcirc) indicator blinks. Then the Wi-Fi Kit attempts the tracking again. In this case, check and change the the central control option for indoor units. When the central control option is disabled, you cannot control indoor units via the Wi-Fi Kit.

• To control indoor units by using a mobile phone, wait until the tracking is completed and then connect the Wi-Fi Kit to a wireless router.

- The (\oplus) indicator does not turn off until the Wi-Fi Kit is connected to a wireless router after tracking.

■ Checking the Wi-Fi Kit



<Front panel of the Wi-Fi Kit>

Items on the LED display

ltem	LED indication	Power supply	Wi-Fi connection	Wi-Fi setting
1	Initialized	On	On	On
2	General	On	On	Off
3	AP connected,	0.5	Dlinking	Off
	Internet connection incomplete	UII	Бшікіну	UII
4	Tracking completed,	0.5	Off	Off
	AP connection incomplete	UII	UII	UII
5	Wi-Fi modem malfunctioning	Blinking	Blinking	Blinking
6	Searching AP (AP mode)	On	Off	On
7	Tracking units	Blinking	Blinking	Off
8	No unit tracked	Blinking	Off	Off
9	Inspection of the network PBA	0.5	Dlinking	Dlinking
	required	UII	Duirking	Duirking
10	User authentication required	0.5	0//	Dlinking
	(AP mode)	UII	UI	DUITKIIIY
11	Downloading	Off	On	Off
12	Rescue mode	Blinking	On	Blinking

*If you see "Rescue mode" LED when you service :

- Please press "AP" button for 5 seconds. Then, Wi-Fi Kit will be do "Factory Reset"

- After "Factory Reset", please guide user to do add device through smartthings app again.

■ Initializing the user data

• To initialize the user data on a Wi-Fi Kit, press the (SW3) button inside the Wi-Fi Kit for 5 seconds. All the indicators illuminate and the user data is deleted.

Updating with the Micro SD card



Туре	Capacity	File system
Micro SD	Max 4GB	FAT16
Micro SDHC	Max 32GB	FAT32

1. Create a folder named "update" in the Micro SD card. Copy the latest software image and paste it into the folder created in the Micro SD card.

 Δ • Be sure to format the Micro SD card using FAT16 or FAT32 before creating the "update" folder.

- 2. Insert the Micro SD card into the slot of the Wi-Fi Kit.
- 3. Press the [Reset] button on the side of the Wi-Fi Kit.
- 4. The indicator (@) on the Wi-Fi Kit blinks every 2 seconds during update.
 - Once the update has been successful, the indicator promptly turns on and then turns off longer. (On: 0.2 second, Off: 2 seconds)
 - The indicator blinks every 0.2 second when the update is completed abnormally.
- 5. When the update is completed normally, remove the Micro SD card and then press the [Reset] button.
- 6. Restarting the Wi-Fi Kit after an update failure will restore the software to the previous version. When the update failure persists, follow the instructions below:
 - File checking: Change the update image (file).
 - Micro SD card checking: Replace the Micro SD card.
 - PBA checking: Replace the network PBA.

2. Troubleshooting

2-1 Summary

Check the following before requesting a service from the Service Centre.

	Symptom	Measure		
The installed S the air conditi	SmartThings app cannot access oner.	• Make sure you have connected the air conditioner to a wireless router.		
I cannot log i	n with my Samsung account.	• Try recovering your ID and password from the Samsung account page.		
	A failure message appears while adding devices	• This may fail temporarily due to the distance from the router or some interferences. Try again later.		
	I found a failure message in 0 to 1 percent of device addition process.	 You can add device units only in AP search state. Check that both the power LED and Wi-Fi setup LED are turned on. Otherwise, press and hold the AP button for over 5 seconds to activate the AP search. You cannot add any device without deleting it once the device has already been added to the SmartThings app. To add the connected device again, first remove it and then proceed with the process. 		
Adding device(s)	I found a failure message in 99 percent of device addition process.	 If you are using a Samsung smartphone, the server may not be connected temporarily. Turn off and on the power of the Wi-Fi Kit, launch the SmartThings app again, and then try adding a device again. If your phone is not a Samsung product, check that you have entered a wrong Wi-Fi password. Try adding devices again. 		
	The app displays an authorization failure before pressing the user agreement button.	• Check whether there are any Wi-Fi Kits already added to the SmartThings app. When there are devices added, first remove them and try again.		
	The app displays an authorization failure on the user agreement screen.	• You must press the AP button within 1 minute. Try adding devices again.		
	The screen requests to initialize the user account.	• This happens when the user has already added devices. Follow the instructions provided in the SmartThings app.		
The power LED and Wi-Fi connection LED are blinking.		• The communication between the Wi-Fi Kit and indoor/outdoor units is unstable. Check the communication cables for indoor and outdoor units or check the central control option for indoor units.		
After adding a device, the SmartThings app displays the disconnection event.		• This happens when a device is being added to the server or it is temporarily disconnected from the router. End the SmartThings app and then launch it again.		
	Are all three LED indicators on the Wi-Fi Kit turned on?	• Reset the Wi-Fi Kit and then check it again.		
The controls of the	Does only () appear on the display of the Wi-Fi Kit?.	 Make sure you have entered the correct Wi-Fi password when add- ing a device. Check the router status. 		
ann do not	Is the 🛜 indicator blinking?	· Check that the wireless router is connected to the Internet.		
operate.	Are all LED indicators on the Wi-Fi Kit blinking?	• This indicates a Wi-Fi Kit malfunction. Contact the Samsung service centre.		
	Is the () indicator blinking?	The Wi-Fi Kit is not connected to the indoor unit(s) normally. Contact the Samsung service centre.		

Symptom	Measure
The SmartThings app displays the error number, 628.	 This indicates a communication error between the indoor unit(s) and Wi-Fi Kit. Check the connection of the communication cables (F1, F2).
I have a multi-unit HVAC system, but I can only see either cooling or heating option on the indoor unit.	 To avoid mixed control, the indoor unit options are automatically restricted to the outdoor unit's settings. Mixed control: Different modes are available for each indoor unit. To select a mode other than the current operation mode, turn off the indoor unit to display all operation modes to select. When there is a master indoor unit, change the operation mode of the master unit.
The LED indicator remains in its initial state. (The LED state changes within 1 minute.)	 Check the connection cable between the network PBA and the Interface module PBA. Even though the connection has no problem but a problem per- sists, replace the Wi-Fi Kit.

2-2 Network Environment

ISSUE	When it is initial set up(Easy Set up) in smartthings app, Wi-Fi is disconnected often.			
	Cause	Improvement Measure		
WORK DETAILS	 Wi-Fi Kit 2.0 is not established due to Wi-Fi communication problems among an air conditioner, a router and a smart phone as there are many routers around that cause frequency interference. More the duplication of the Wi-Fi channels between the router to be installed and the ones around, more the possibility of the occurrence of communication problems. 	- Start Wi-Fi Analyzer, see if there is a frequency interference by comparing the channels with the routers around and set the channel as the most far-separated one		
OTHERS	[Check the frequency of channels] Start Wi-Fi Analyzer app. (Downloaded from app store)			

ISSUE	Net	Network Error				
			Cause	Impro	ovement Measure	
	- AP C Conr		nection OK. But, Internet is not ted (LED Status 3)	- Check whether the router is correctly connected the Internet.		
WORK DETAILS		- Air conditioner searching OK. but AP connection is not completed. (LED Status 4)		 Air conditioner searching OK. but AP connection is not completed. (LED Status 4) Check whether the Wi-Fi Kit 2.0 is correctly connected to a wireless router. 		rectly con-
		- Wi-Fi M (LED St	lodem is in Malfunction atus 5)	- Check whether the correctly connected if the problem is stil exactly correct.	Wi-Fi Kit 2.0's Wi-F I to a main board.R I same, even thoug	i Module is eplace the PCB ghconnection is
					Wi-Fi connec-	
		ltem	LED indication	Power supply	tion	Wi-Fi setting
		1	Initialized	On	On	On
		2	General	On	On	Off
		3	AP connected, Internet connection incomplete	On	Blinking	Off
		4	Tracking completed, AP connection incomplete	On	Off	Off
		5	Wi-Fi modem malfunctioning	Blinking	Blinking	Blinking
OTHERS		6	Searching AP (AP mode)	On	Off	On
		7	Tracking units	Blinking	Blinking	Off
		8	No unit tracked	Blinking	Off	Off
		9	Inspection of the network PBA required	On	Blinking	Blinking
		10	User authentication required (AP mode)	On	Off	Blinking
				0.((0.5	Off
		11	Downloading	Off	Un	

ISSUE	Network Error				
	Cause Improvement Measure				
WORK	- No Air Co	- No Air Conditioner Information to a F		- Check whether the Communication cable is correctlyconnected to a F1/F2 line.This F1/F2 line supports the non-polor.	
DETAILS	- Indoor ins is differer stallation	- Indoor installation information is different from the actualin- stallation - Press the tracking button for one second to perform the tracking again.		on for one second to performthe	
OTHERS				Wi-F	і Кіt - (б) - (с) - (а) - РСВ port
	ltem	Contents		ltem	Contents
	A	Power/communicatio	n terminals	D	LED
	B	Tracking/Reset l	button	E	Network PBA
	C	Micro SD card	slot	F	Interface module PBA

ISSUE	The Connection between System AC and Wi-Fi Failed. Please try again.			
WORK DETAILS	CauseImprovement Measure- When communication is not connecting between Wi-Fi Kit 2.0 and Router. - When router does not support SSDP Protocol.1. Install the Wi-Fi Kit 2.0 in a place close to the router. 			
OTHERS	[Check the frequency of channels] Start Wi-Fi Analyzer app. (Downloaded from app store)			

ISSUE	The indoor unit mode of multi product model that supports heating/cooling is displayed only one between heating and cooling.			
WORK DETAILS	CauseImprovement Measure- HP model is displayed automatically restrictively to be able to select only the operating mode onoutdoorunit, in order to prevent the mixed control(phenomenon 			
OTHERS	 AIR CONDITIONER I Heat • I + + + + + + + + + + + + + + + + + + +			

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GSPN (GLOBAL SERVICE PARTNER NETWORK)

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