Samsung Controls Product Overview

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Agenda

- 1. Local control
- 2. Centralized control
- 3. Integrated management system
- 4. Building management system
- 5. Ancillary controls & modules
- 6. DVM chiller controls



Before we begin...

SAMSUNG

Important Notices

Specification Changes

Specifications are subject to change without prior notice.

Every effort has been made to insure that the information included in this presentation is as accurate as possible at the time of it's publication.

Use of Training Material

This training module is not intended to replace Samsung service manuals, technical data books, installation/operation manuals or other factory documents.

For technical support issues, always contact a Samsung equipment provider.

Handling of Equipment

Only properly trained, HVAC professionals should attempt to install and start up any Samsung heating and airconditioning system.

Use of Information

This presentation may only be used with authorization by Samsung HVAC. Unauthorized use, duplication or alteration of this presentation is prohibited.

High Voltage Caution:

Extra care must be taken when working on or around the system equipment due to numerous high voltage components. Whether installing or servicing Samsung RLC equipment in the field or while attending Samsung HVAC training classes which include powered simulators and equipment, be aware of the potential dangers of high voltage <u>Use Caution</u>

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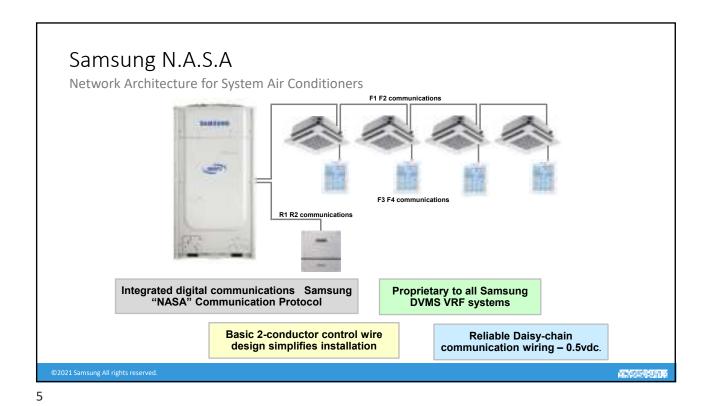
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Samsung Control System

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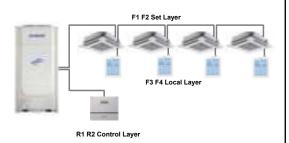
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Control Wiring NASA Digital Control Layers

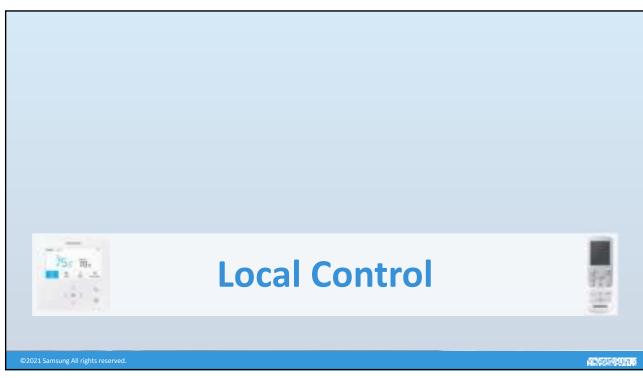
- F1 F2 Set Layer:
 - ODU to IDU's & MCU'S
 - (incl. multiport EEV Kit)
 - Daisy chain connections
 - 0.5 VDC
- F3 F4 Local Layer:
 - Wired Remote Controller to indoor unit
 - 12 VDC
- R1 R2 Control Layer:
 - Outdoor Unit to upper-level controllers
 - 5 VDC
- Control Wire:
 - 16/2 AWG stranded with shield
 - Never use solid core thermostat wire





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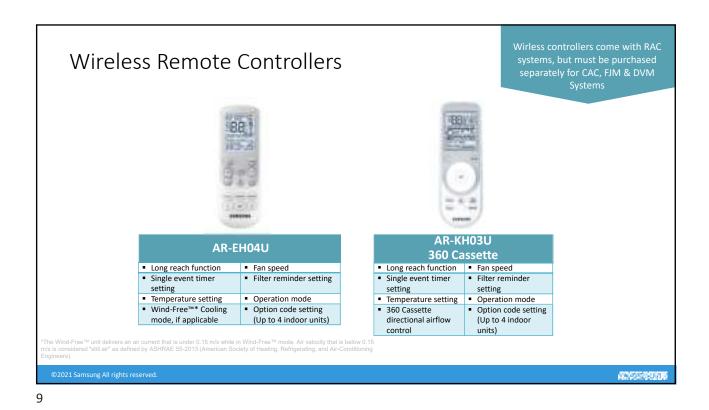
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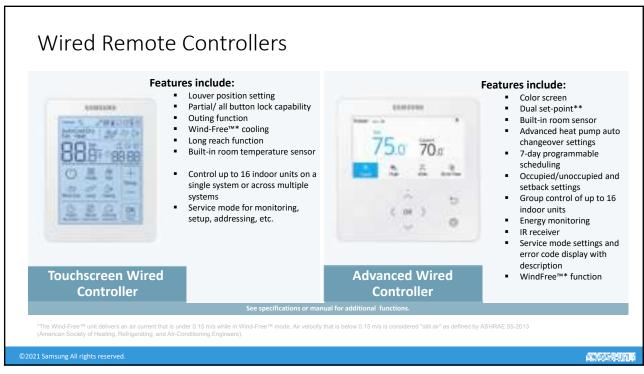


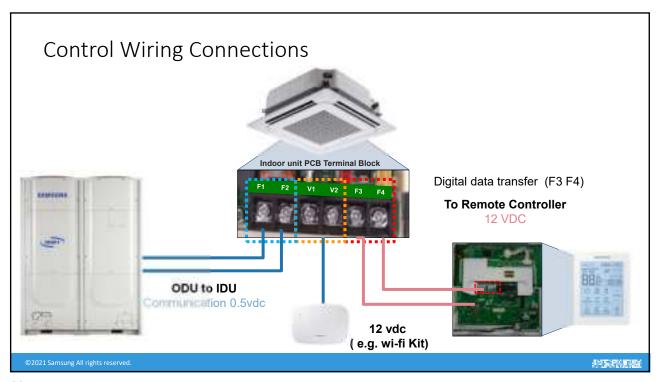
Remote Controllers Indoor units are controlled by digital, Remote Controllers Wireless No internal room temperature sensor Wired All wired controllers have built-in room temp sensors Power Line Communication (12 vdc)

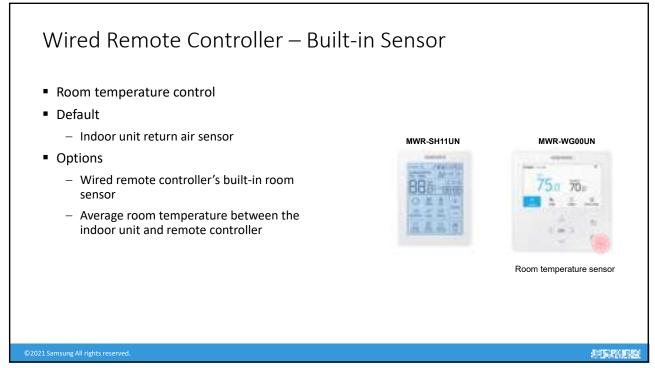
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多用下程的基础









MWR-SH11UN "Simple Touch" Wired Remote Controller

- Built-in room sensor
- Backlit LCD display
- Wind-Free^{™*} Control
- Clean Function
- Long Reach
- Error display
- Built-in infrared receiver
 - allows control with wireless remotes

- Button lock feature: All buttons or selected buttons
- Temperature display option
 - "Set Temperature"
 - "Room Temperature"
- Address and option code setting
- For detailed functions and operations refer to IOM manual



*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

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MWR-WG00UN Wired Remote Controllers

- Built-in IR receiver and temperature room sensor
- Dual Set Point (DSP) Setting (for supported indoor units)
- Wind-Free™* function settings
- 360 cassette functions
- Backlit LCD display
- Advanced HP auto changeover
- Error display
- Weekly operating schedule
- Upper/lower temperature limit setting

- Child lock
- Button lockout options
- Wireless remote-control restriction
- MDS (motion detection sensor) Indirect/Direct setting
- Service mode support
- Address and option code setting
- For detailed functions and operations refer to IOM manual



*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

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CONTRACTOR UNITED

AR-EH04U Wirless Remote Controller

- Compatible with all indoor units equipped with an IR receiver
 - (excl. 360 cassette)
- 4 channels for individual unit control
- No built-in room temp sensor
- Powered louver control
- WindFree* function
- Address and option setting
- Ducted units require Wireless Receiver Kit
- 4-Way Cassette each louver can be set individually
 - 32° to 65°
- For detailed functions and operations refer to IOM manual



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AR-KH03U Wirless Remote Controller

360 Cassette

- Air flow direction control for 360 cassettes
 - Individual booster fan control
- No built-in room temp sensor
- 4 channels for individual unit control
- Buzzer sound mute
- Address and option setting





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MRW-TA External Room Sensor

- Provides for more accurate room temperature control when indoor unit is installed in high ceiling, or has outside fresh air ducted into the return,
- 2-wire connection to indoor unit PCB



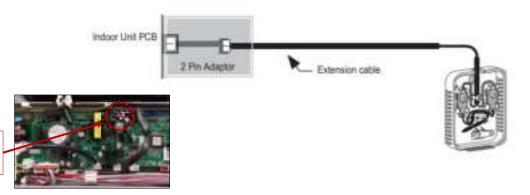
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MRW-TA External Room Sensor

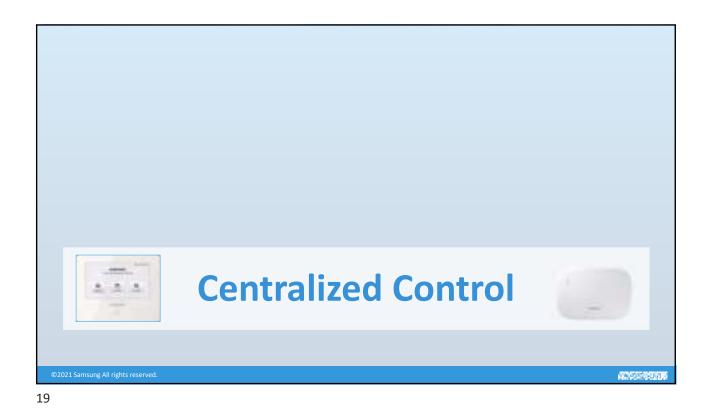
- Replaces input from return air sensor and provides temperature sensing for remote controllers without internal sensor
- Applies to all indoor units
- Includes a 39 ft. 2-conductor connection cable



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Unplug the IDU return air sensor (CN412) and plug in the MRW-TA wire in it's place

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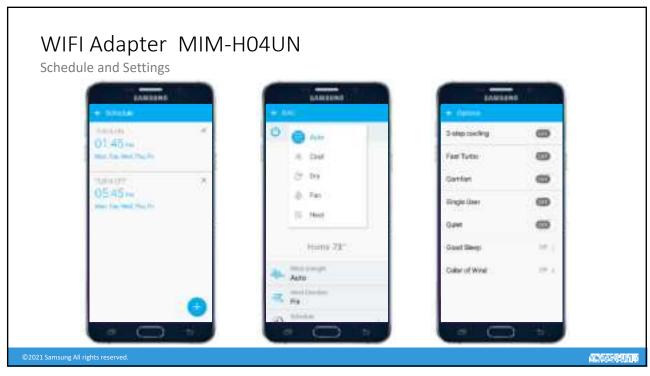


WIFI Adapter MIM-H04UN

- "Samsung Smart Things" app required
- Android and Apple devices
- Control up to 16 indoor units
- Scheduling / 7 day
- Grouping On/Off control
- Energy Monitoring
 - Daily
 - Weekly
 - monthly







WIFI Adapter MIM-H04UN

Energy Monitoring

- Display of power output
- Different than consumption found on utility bills
- View kWh by
 - Day
 - Week
 - Month



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STEP STEP STEEL

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Touch Centralized Controller MCM- A300UN

- 7" Touchscreen Controller
- Maximum 128 indoor units
- Maximum of 16 systems on a single R1/R2 upper-level comm. Line
 - Control of multiple systems
- Can connect to one system on the set layer F1/F2
 - Control of one system



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经过事的规则

Touch Centralized Controller MCM- A300UN

- Creation of zones for indoor unit grouping
 - Max 12
- Digital output interlocked with indoor unit operation
 - Operation error
- SD card slot for data backup and future software updates
- 100 240vac power supply
 - Requires code compliant installation



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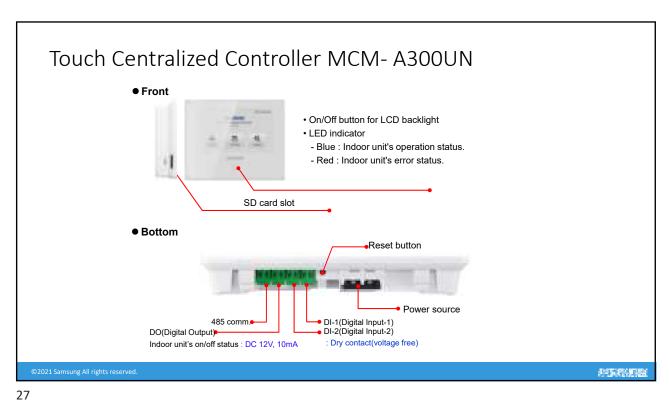
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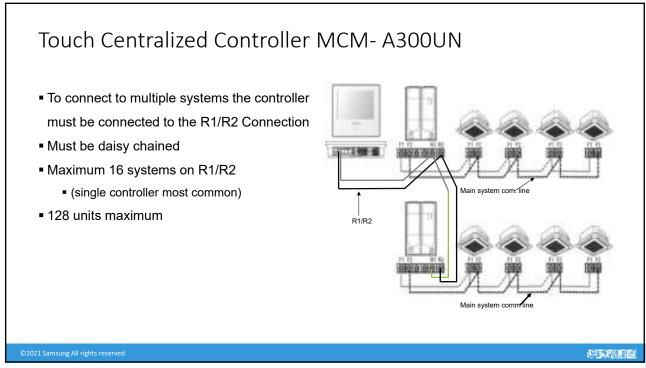
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Touch Centralized Controller MCM- A300UN

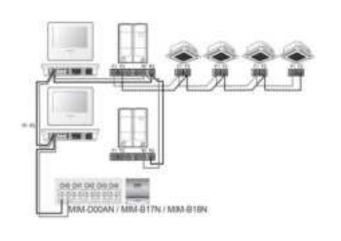






Touch Centralized Controller MCM- A300UN

- Can be used in conjunction with other upper-level controls
 - DMS 2.5
 - BACnet
- Multiple central controllers can be used in the network.



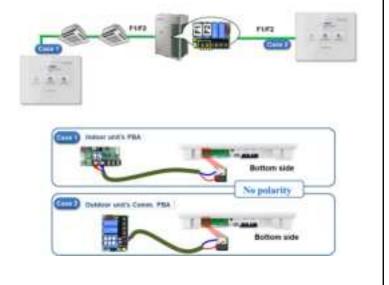
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STEP STEP STEEL

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Touch Centralized Controller MCM- A300UN

- Connection can be made at indoor or outdoor unit
- Not polarity sensitive
- Max of 64 units on F1/F2



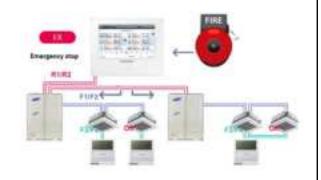
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经有限的现在

Touch Centralized Controller MCM- A300UN

External Device Interlock

- Simple operation control
- 2 Digital inputs
 - Stop signal (stops all equipment)
 - Signal to lock/unlock local controllers
- Interlock with external contact



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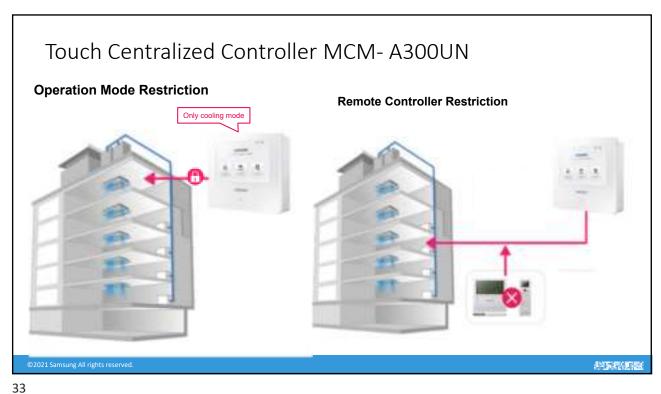
Touch Centralized Controller MCM- A300UN

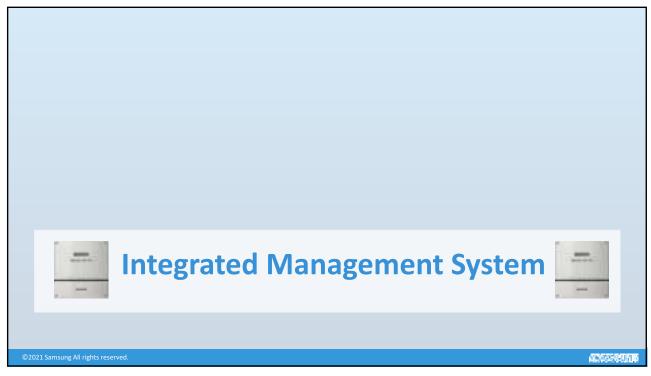
Three operation patterns

Pattern	Control	Contact Input			
1	No function (Default setting)	Not applied			
2	DI 1. Emergency stop operation. (Short : Stop / Open : standby) All indoor units stop operating and any command is ignored	Short / open contact			
	DI 2. no function	1			
	DI 1. All indoor unit ON/OFF control (Short : off / Open: on)				
3	※ It is different from DMS 2.5 (Short : on / Open : off)	- Short / open contact			
•	DI 2. Permitted/Prohibited remote controller use				
	(Short : Permitted / Open : Prohibited)				
4	DI 1. All indoor unit ON control	Short pulse			
4	DI 2. All indoor unit OFF control	Short pulse			

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Data Management Server 2.5

- Directly compatible with
 - All NASA Systems
 - DVM, Current CAC & FJM,
- Fresh Access™ Split DOAS



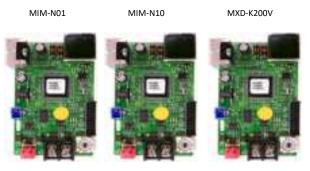
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Data Management Server 2.5

- Compatible with use of adaptors
 - Non-NASA Systems
 - With adaptor MIM-N01
 - Fresh Access™ ERV'S
 - With adaptors
 - MIN-N10
 - MXD-K200VN
 - RAC
 - With adaptor



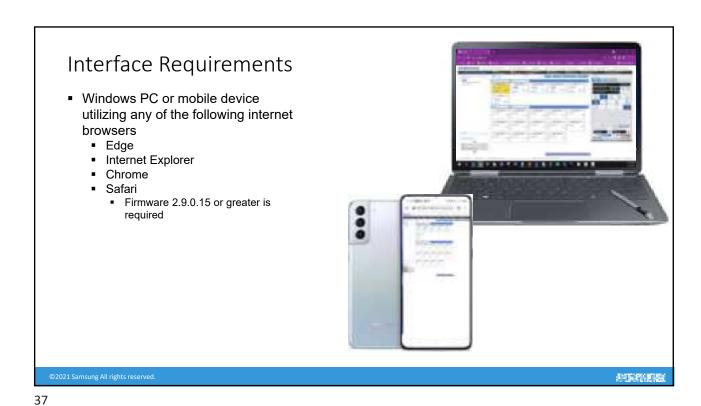
Accessory are physically the same, but the software is different. Take care when installing to make sure the correct part number is with the correct components



MIM-R10UN

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DMS 2.5 Control & Monitoring

Individual/Zone management up to 256 Indoor units

Remote control via LAN/Internet

Example

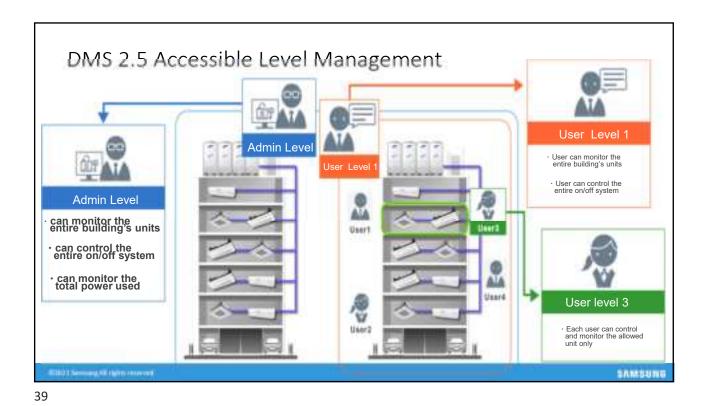
A zone

Minimum cooling setpoint: 68'F

B zone

Cooling only / No remote controller / Minimum cooling setpoint: 68'F

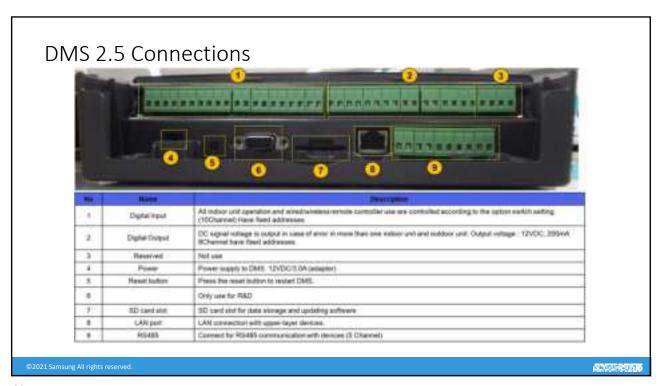
Cooling only / Remote controller use

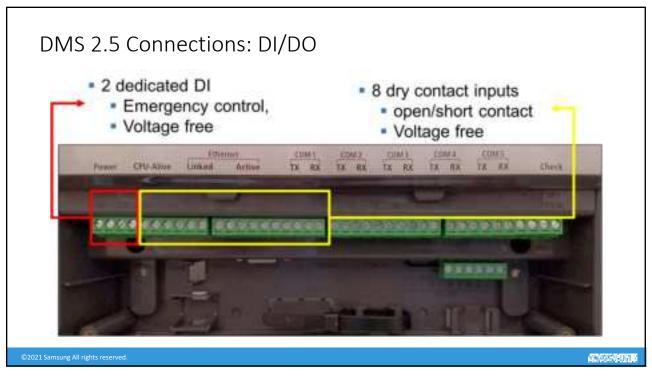


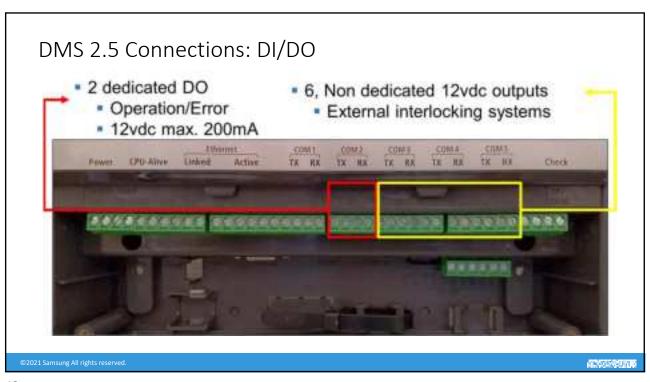
DMS 2.5 Recorded History Management
Indoor unit operation history
Schedule history
Control logic operation history
System environment setting history
Error history
SD card allows data storage when the DMS memory fills.

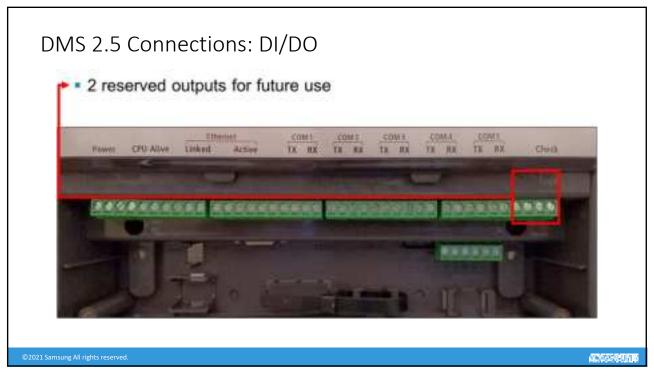
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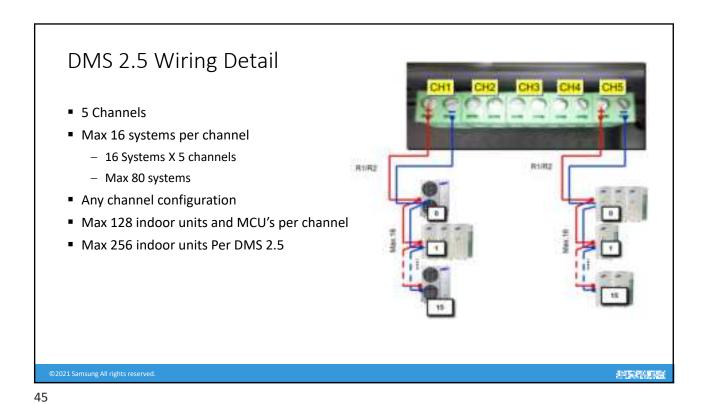
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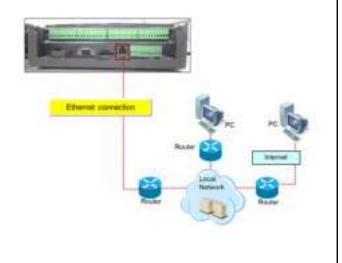






DMS 2.5 Connection Example

- Local or Remote Access available
- IP address of remote computers must be registered in the DMS
- VPN maybe required if using a computer in multiple locations



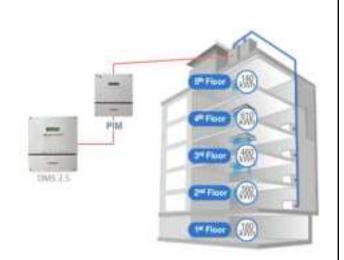
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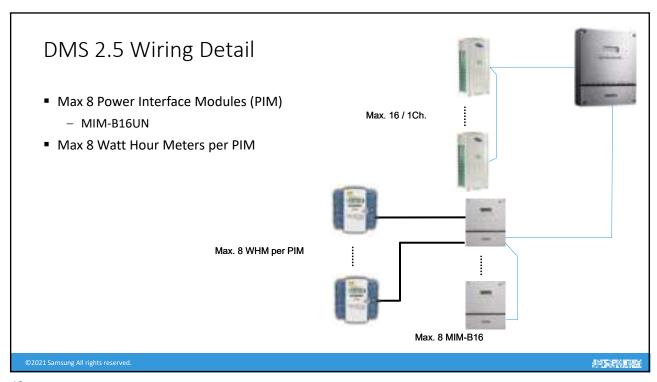
DMS 2.5 Power Distribution

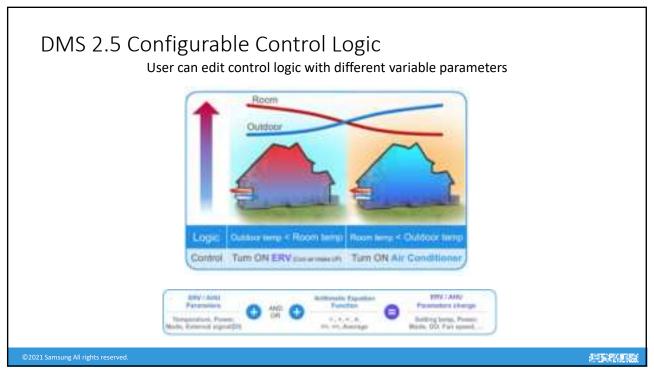
- Maximum 8 MIM-B16UN per DMS 2.5
- Maximum 8 pulse type watt hour meters
- 1-year power distribution data storage
- Data query for
 - watt-hour, use time and use ratio
 - Current power consumption monitoring
- Current-type electricity meter support
 - (CT ratio input)
- Pulse Input Module required
- (PIM) MIM-B16UN
- Export data to Microsoft Excel

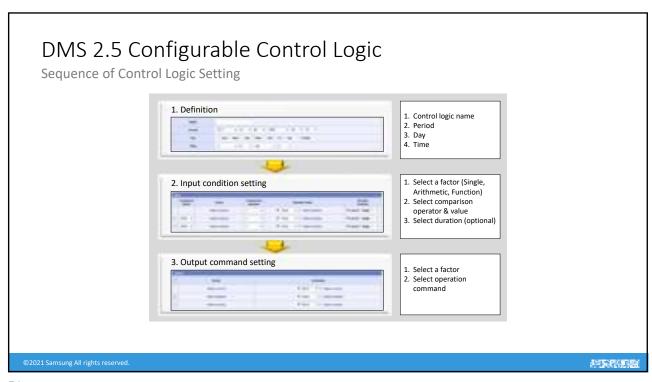


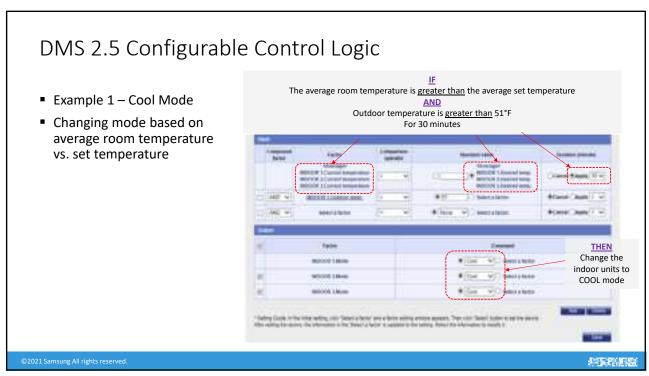
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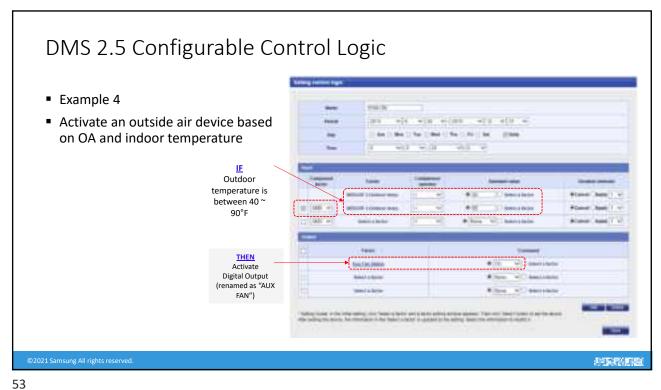
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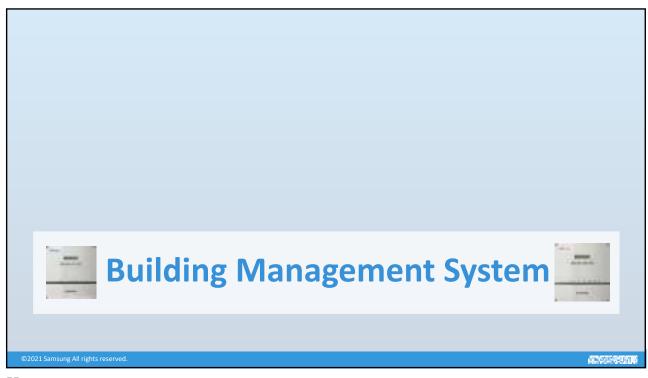
DMS 2.5 Configurable Control Logic

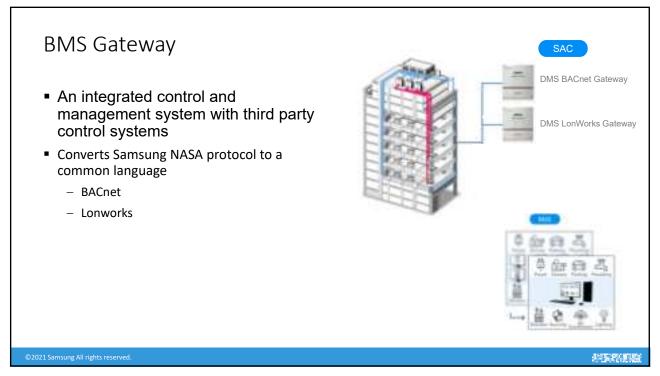
Basic logic tips

- If input conditions are true and output commands are being executed, the output command type cannot be changed for that unit
- Additional control logic programs must be created to undo what your logic programs may have done
 - Example 1: If you activated an ERV in bypass mode for "free cooling", make sure that there is also a program to turn it off later if room temperature is below set temperature.
 - Example 2: If you activated a valve for backup radiant heating with a DO, make another program to turn it off once set temperature is reached.

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BMS Gateway

- Open protocol gateways for Building Management Systems (BMS)
- Same interface as DMS 2.5



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STEP STEP STEEL

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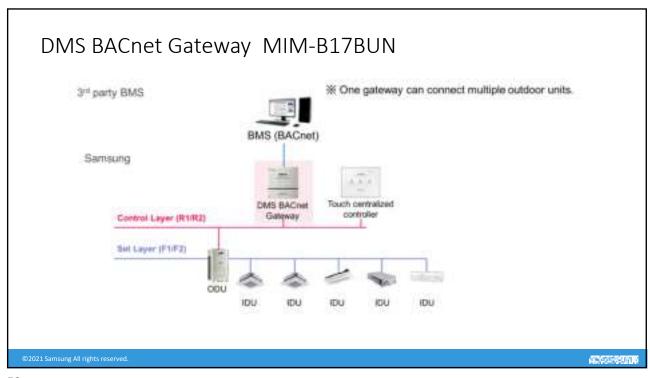
DMS BACnet Gateway MIM-B17BUN

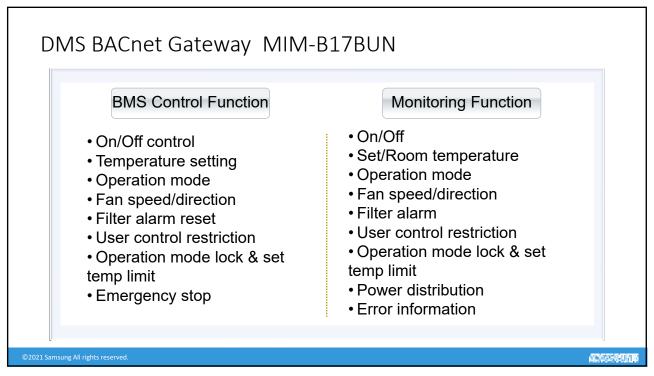
- Interface for BACnet Building Management System
- Included DMS2.5 function
- Communication connection
 - Lower layer: RS485 to Samsung Systems
- Upper layer: Ethernet 10/100 Base-T to internet
- BACnet layer: Ethernet 10/100 Base-T to BMS



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BACnet Control Points – Indoor Units

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			Object Name	inactive .	Bettye
				Saun-1	Taret-2
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2	Sat temperature	AV	AHU_Temp_Set_as_asxxs	'C('F)	
3	Setting lower temperature land	AV	AMU_Cool_LittlTomp_xx_exxxxx	19(19)	
4	Setting upper temperature limit	AV	AHU_Heat_LimitTemp_sx_sxxxxx	10(11)	
0	The power value of an indoor unit after the basic date	All	AHU_Basetne_kWh_ks_xxxxxx	1000	
9	The number of hours usage of an industruct after the beaut date	A)	AHU Baseine Moute sa james	Monte	
1	Prover salue within period	Ail	AHU Period SWILES SERVICE	A/M/m	
	The number of hours usage of an indoor unit within period	Al	AHU_Period_Minute_cs_xxxxxx	Moute	
	Power On/Off	ttv	AHU_Priver_ex_vxxxxx	- 06	l0H
10	Applying lower temperature limit setting	BV	AHU_CHE_LHHE_BEL_XC_XXXXX	Estate	- 37ue
11	Addiving upper temperature limit setting	RV.	AirtL_Heat_Limit_set_xe_econe	Faren	True
12:	Filter sign status	84	AHLI_FitherSign_xx_sasons	Falter	True
13	Fitter riggs rened	80	AHU FillerSign Reset av access	False	True

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BACnet Control Points – Indoor Units

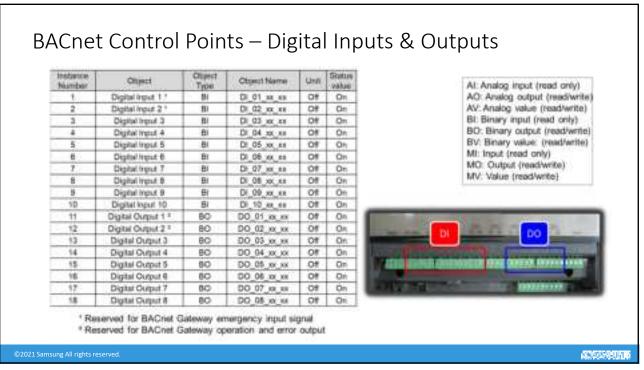
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BACnet Control Points – Outdoor Units Open Types Text2 Cusice empercee ODU_Gusida_Temp_oc.com -5 Contractor, compression ومعرض بطها بهو مكارزها كريافات Stagement Subgrand 2: 2-kgc and Cobligation 6 Stagement Subgrand III Stagement Subgrand 3: 2-bg and 11 stakens and 3 and 2405 - 2 Here cause by companisation ODU_Heat_Compensation_cc_ 000_0on/_0cas_ocaso False Title Compressors aid. 6 Industriace recodure amor social $-aparte_a \circ o_b \circ o_m_b \circ o$ variante the 1st of the integration amonipode. Wien die ertmodumen sendlevenskollist of destination in ste-ecopeer_sc.thec; it; Interface results are my M_Shift_m_more MIM-B17BUN Gateway Consol and Monisoring Instance Number Сојес:Туре Object Hame ORDER SMILE $\Delta LL_{\rm B} P_{\rm e} \alpha$ norman i All elevirona 201 net, & Einsecend years. 105 : The little in piro 105 : The bing felled 100 : 1400 — EACher. Constructed in felled DMS2 States 2462 Status on secretely, and coolin William Bland menessas, and processors to be an abdiscuration of the conjugate juicety flat of the 124 CW Hedle ox Cotamo Notific ACCESSES NO.

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DMS Lonworks Gateway MIM-B18BUN

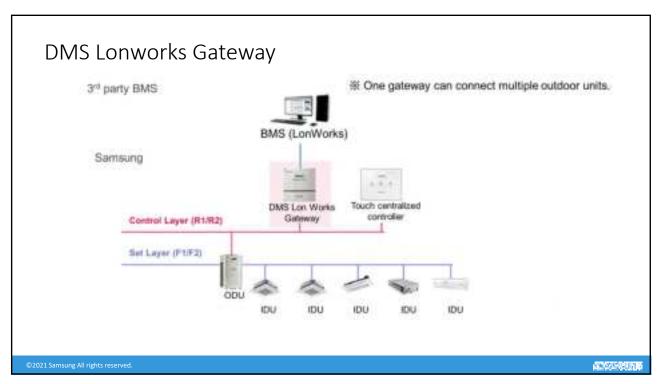
- Interface for Lonworks Building Management System
- Included DMS2.5 function
- Maximum 128 indoor units per gateway
- Number of objects monitored/controlled varies based on quantity of indoor unit
- Communication connection
 - Lower layer: RS485 Samsung Systems
 - Upper layer: Ethernet 10/100 Base-T To internet
- Lonworks layer: TP/FT-10A to BMS
- Lonworks limited to a max 600 points
 - Example 30 indoor units 20 points each

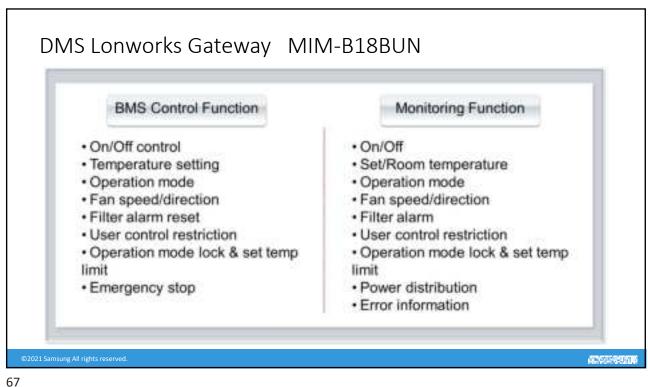


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Intesis™ BACnet IP-MSTP Interfaces

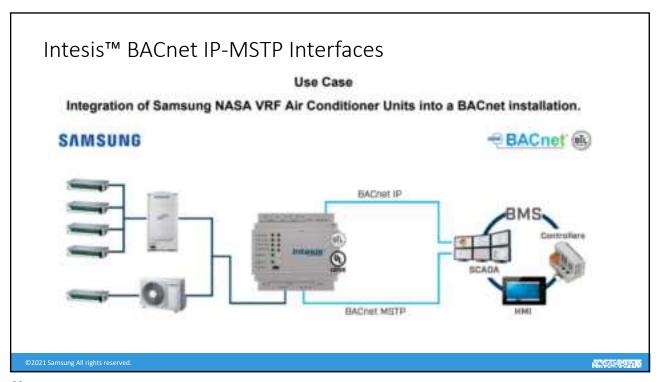
Features

- Direct access to outdoor unit's communication bus.
- Automatic identification of the units present in the VRF system.
- Supports BACnet/IP and BACnet MSTP physical layers.
- Datalogging through external USB port.
- Configuration through IP or USB (Console) port.
- Front cover LED indicators to provide easy to check communication status on both the Ethernet and serial ports.
- Automatic updates for both Intesis MAPS and interface's firmware.
- Power supply not included. 24 vdc (>=140ma) recommended;



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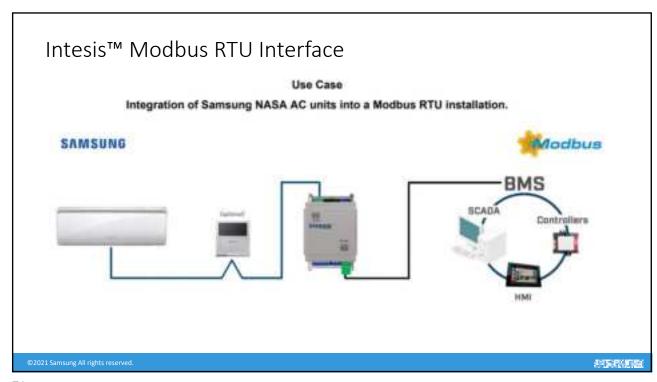
Intesis™ Modbus RTU Interface

- Allows fully bi-directional communication between NASA units and Modbus RTU networks.
- Features
 - Configuration from both onboard DIP-switches and Modbus RTU.
 - Quick and easy installation
 - External power not required.
 - Simultaneous control of the AC unit by wired/wireless controllers and Modbus RTU.
 - Window contact function allows energy savings.
 - Included components: Intesis Gateway, Installation Manual



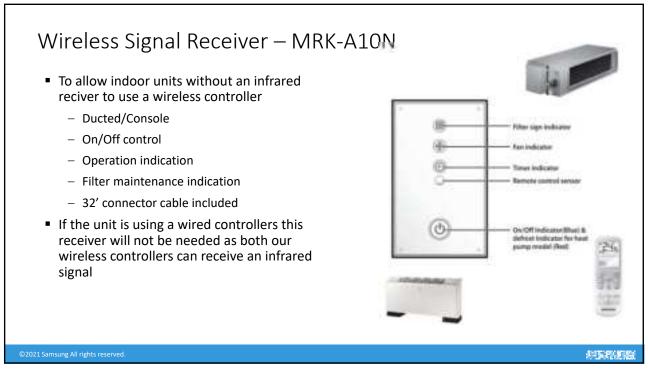
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多相联系统的数









Operation Mode Selector Switch – MCM-C200U

- Manual system mode select
- Heat Pump systems only
 - Cool Heat Auto setting options
- Installed in outdoor unit or in building
- Allows manual operation mode change preventing mixed operation
- Max. 328ft of wire between outdoor unit and MCM-C200U
- 3 conductor cable require



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经过度

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External Temperature Sensor – MRW-TA

- 2-wire connection to indoor unit PCB
- Replaces unit return air sensor
- Applies to all indoor units
- Includes a 39 ft. 2-conductor cable
- Provides for more accurate room temperature control when
 - Indoor unit is installed in a high ceiling
 - Fresh air is ducted into the return
 - When using a remote controller with no built-in space sensor

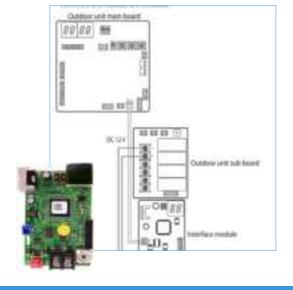


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Interface Module Communication Adapter MIM-N01

- Allows connection of DVM S series systems to previous generation central control models
- Allow connection of non-NASA products to NASA communication upper-level controllers
- Installs in the outdoor unit
- Includes wire harness for
 - F1/F2
 - 12 VDC



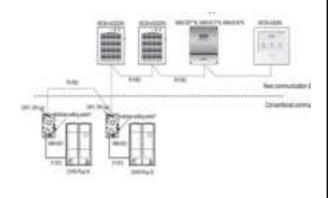
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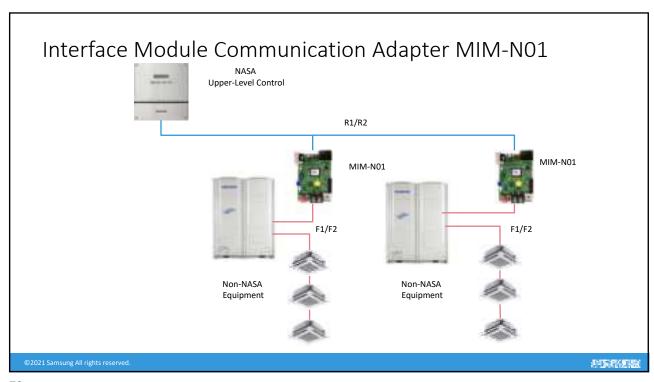
Interface Module Communication Adapter MIM-N01

- Gives older equipment a R1/R2 connection
- Converts eveything to NASA
- Address will be set with a dial,
- Each unit will need a unique address



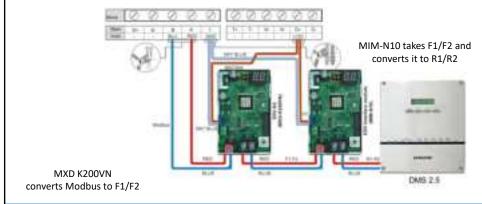
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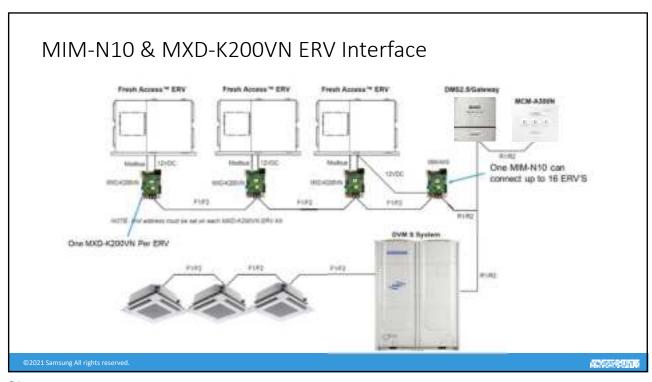
Interface Module Communication Adapter MIM-N10

- Used in conjunction with ERV Kit (MXD-K200VN)
- Control Fresh Access ERV'S
- Communication between upper-level controllers and the ERV units, DMS2.5, Touch centralized controller



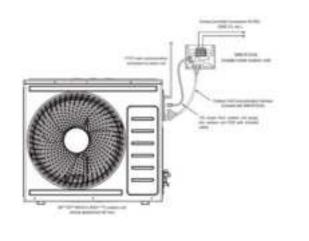
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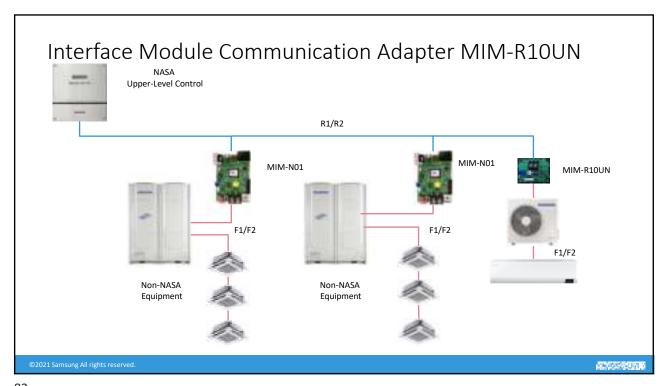
Interface Module Communication Adapter MIM-R10UN

- Allows connection of Samsung 2020 RAC single zone systems to NASA
- Installs in the RAC outdoor unit with included harnesses
- One per outdoor unit is required
- Must manually set a central control channel address



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然下的原理



External Contact Controller - MIM-B14

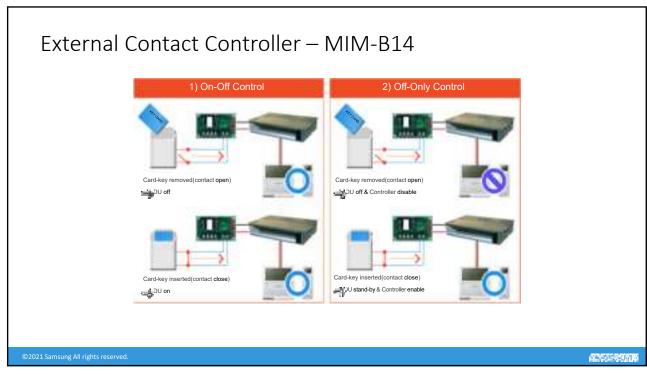
- Direct indoor unit control by external contact signal
- Function examples:
 - Hotel key card switch
 - Door/window switch
 - Occupancy sensor
 - On/Off ventilation control with indoor unit thermo-on/ thermo-off
- Indoor unit operation/error state output through relay contacts
- Emergency control with simple contact input
- Compatible with all DVM S indoor fan coil units

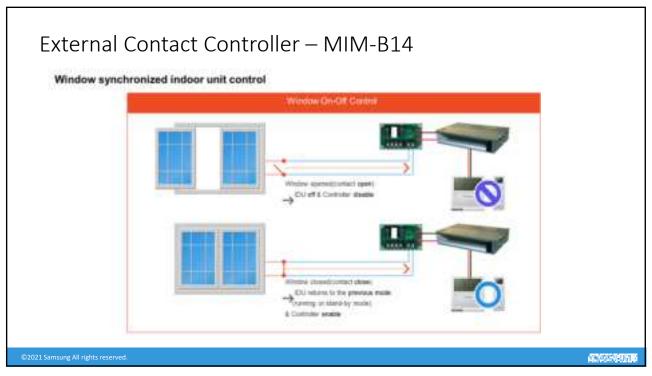


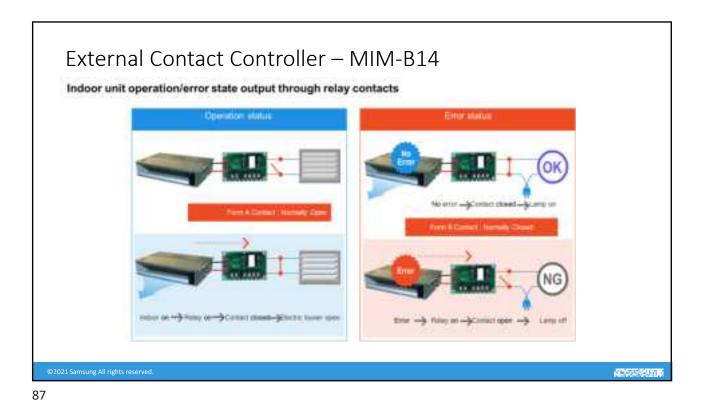
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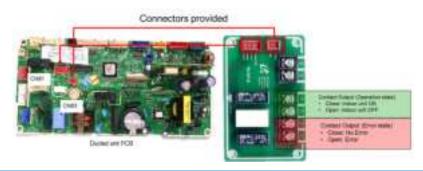






External Contact Controller – MIM-B14

- To control other devices based on indoor unit operation
- Output terminals are open/close contacts 0 volts
- Indoor unit option setting required
 - 02 installation option setting, segment 15
- Max load rating on the Operation & Error terminals
 - 250vac, 3A



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然下的原理

External Contact Controller - MIM-B14

- MIM-B14 Controller operation output can be modified to one of the following at a time
- Operation On/Off
 - Output based on power status of connected indoor unit (On or Off including fan)
- Thermo On/Off
 - Output based on connected indoor unit's current operation
 - Heating/Cooling trying to condition the space
 - Satisfied set point and in a "Thermo-Off" state
 - Fan mode contact open
- External Heat control

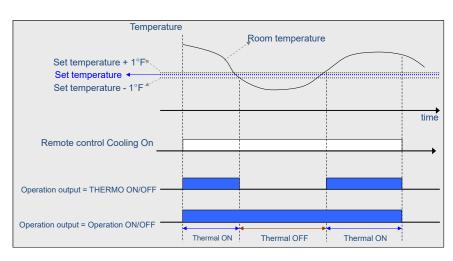


SPENSOR SERVE

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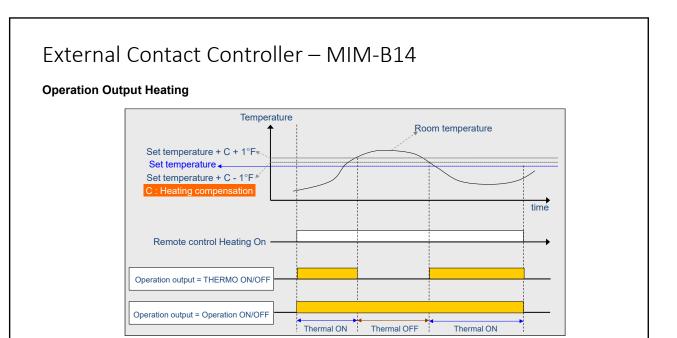
External Contact Controller - MIM-B14

Operation Output Cooling



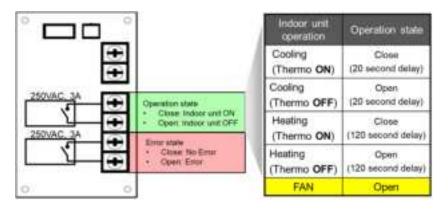
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External Contact Controller - MIM-B14

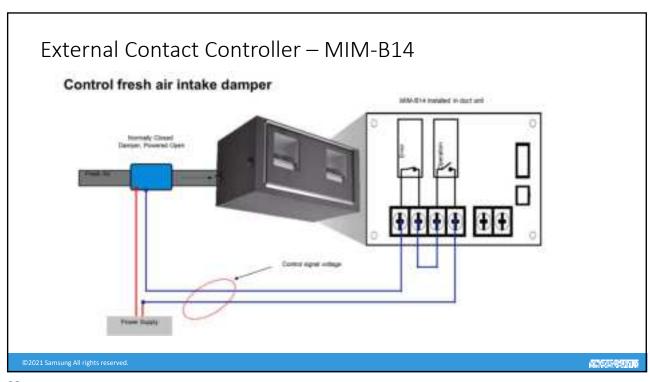
- Thermo-On/Off Operation
 - Output terminals are dry contacts Open/Close with 0 volts
 - Maximum 250vac, 3A can be applied to the operation and error output terminals

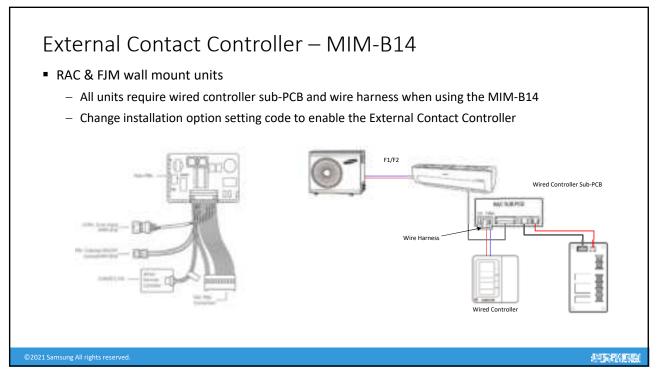


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Multi-Tenant Function Controller – MCM-C210N

- Used in applications where an indoor unit will not have power for long periods to allow full system operation.
 - If an indoor unit loses power the DVM S system will lock out on an E201 error code after 2 minutes
 - Timing can be changed to 12 or 24 hours
 - MTFC can keep the system online
- One MTFC per DVM S indoor unit
 - Monitors supply voltage to the indoor unit
 - Supplies auxiliary power to maintain communication during power loss
 - Powers the EEV closed during power loss to avoid water damage
 - Condensation
 - Drain pump not powered causing water overflow
 - 5 VDC to maintain communication
 - 12 VDC to power EEV closed for safety



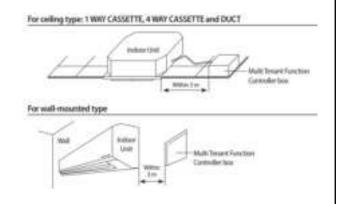
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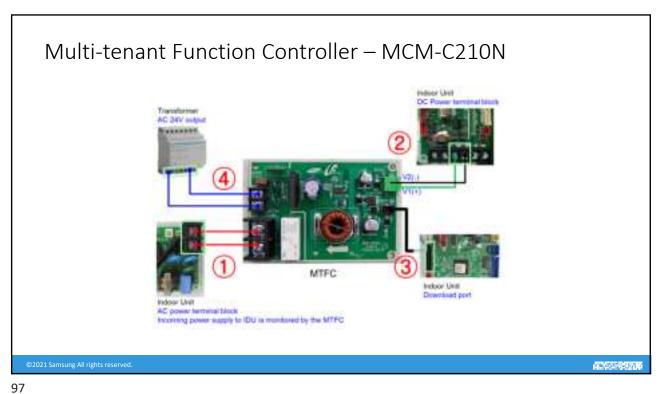
Multi-Tenant Function Controller - MCM-C210N

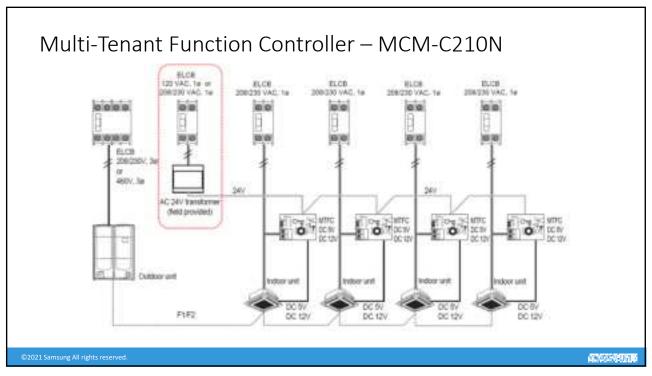
- Controller power supply:
 - 24vac 50/60Hz transformer (not provided)
- Transformer must be powered from a separate circuit
- Indoor unit connection cable
 - Max length 118"
- One Wired Remote controller cannot be connected to multiple indoor units when using the MTFC
- The MTFC must be installed in an NEC approved enclosure (field provided)



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多祖教的职程





Motion Detect Sensors

- MCR-SMA Motion Sensor
 - Standard Mini 4-Way Cassette
- MCR-SMC Motion Sensor
 - Wind-Free™* 4 Way Cassette
- MCR-SMD Motion Sensor
 - Wind-Free™* Mini 4 Way
- MCR-SME Motion Sensor
 - 360 Cassette



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MCR-SMA Motion Sensor – Mini 4-Way Cassette

- Samsung Comfort Logics (activated in "Premium" mode)
- Comfort Flow:
 - MDS prevents cassette from blowing directly on occupants by changing air flow direction
- Comfort Temperature:
 - When the temperature difference between the upper and lower parts of the room is large, the supply air louvers will lower to direct air downward
- Comfort Saving:
 - When no motion is detected, MDS will adjust set temperature to reduce energy consumption (maximum +3.6° F in cooling, and -3.6° F in heating)



Mode	Soft Off (minutes)	Hard Off (minutes)	Function Description	
	20	30	SOFT OFF: turns off indoor unit but can restart with motion detection before HARD OFF.	
Standard	40	60		
	80	120	HARD OFF: Turns unit off but will not turn back	
	120	180	on after motion is sensed. Unit will need to be power ON with a unit controller.	
Premium	20	30	SOFT OFF and HARD OFF are the same as	
	40	60	Standard Mode.	
	80	120	Samsung comfort functions are activated.	
	120	180		

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MCR-SMC,D,E Motion Sensor – Mini 4-Way Cassette

- Samsung Comfort Logics (activated in "Premium" mode)
- Comfort Flow:
 - MDS prevents cassette from blowing directly on occupants by changing air flow direction
- Comfort Temperature:
 - When the temperature difference between the upper and lower parts of the room is large, the supply air louvers will lower to direct air downward
- Comfort Saving:
 - When no motion is detected, MDS will adjust set temperature to reduce energy consumption (maximum +3.6° F in cooling, and -3.6° F in heating)

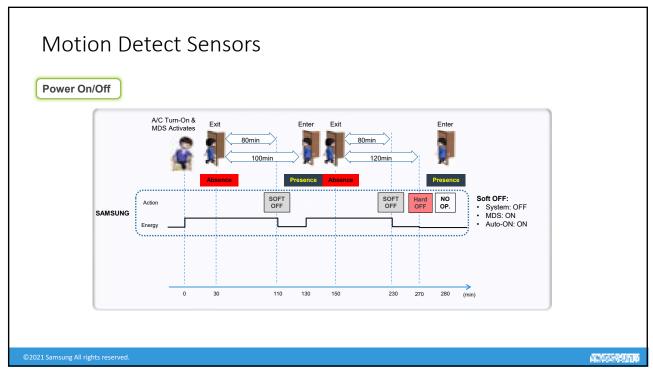


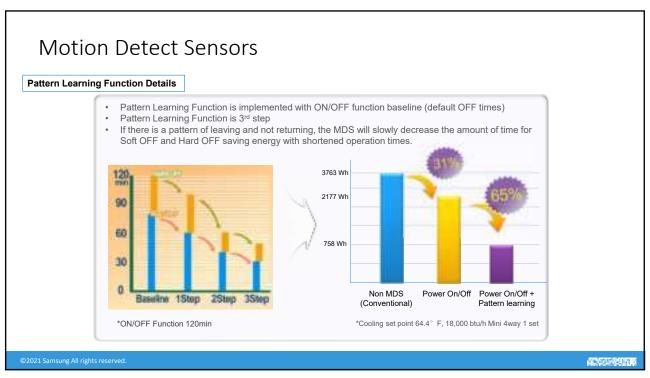
Mode	Soft Off (minutes)	Hard Off (minutes)	Function Description	
Standard	20	30	SOFT OFF: turns off indoor unit but can restart	
	40	60	with motion detection before HARD OFF.	
	80	120	HARD OFF: Turns unit off but will not turn back on after motion is sensed. Unit will need to be power ON with a unit controller.	
Premium	20	30	SOFT OFF and HARD OFF are the same as	
	40	60	Standard Mode.	
	80	120	Samsung comfort functions are activated.	

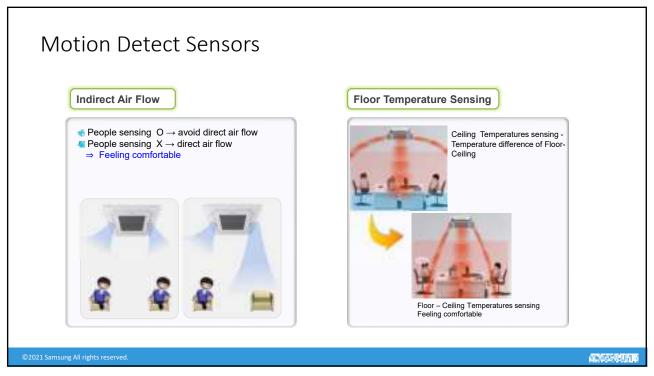
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24VAC Thermostat Adapter MIM-A60UN

Features

- Allow control of indoor units with a standard 24VAC thermostat
- One adapter per indoor unit connected to F3-F4

Basic control of:

- Power: ON/OFF
- Mode: Heat, Cool, Fan
- Supports 1 or 2 stages cooling inputs, 1 or 2 stages heating inputs

Can be configured to operate the indoor unit as

- Primary heating source
- Secondary heating source
- Cooling only with heat from an external source only

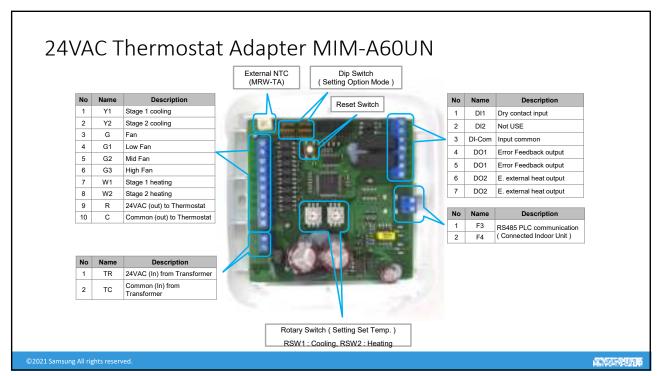
External contact input to disable the unit when contact is opened





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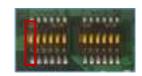
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24VAC Thermostat Adapter MIM-A60UN

■ Basic priority:

 Central control and wireless remote control will operate normally. If the indoor unit is controlled by central control or wireless remote control, the displayed indoor status on the thermostat and the actual status of the indoor unit may be different.



SW1 Operation priority setting ON Thermostat priority OFF Basic priority (default)

■ Thermostat priority :

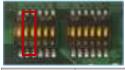
 The thermostat control will be applied first and will control the indoor unit based on the thermostat demand. Indoor units with this option set to ON will ignore wireless remote control and central control commands including central controller schedule, logic control, etc. Central controllers will only monitor indoor unit status.

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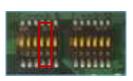
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24VAC Thermostat Adapter MIM-A60UN



SW2	Use External DI Function
ON	DI Function enable (dry contact)
OFF	DI Function disable (default)

SW3	Use External DO Function
ON	DO Function enable
OFF	DO Function disable (default)

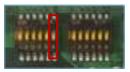


SW4	Select Error Feedback Function
ON	Enable Error Feedback
OFF	Disable Error Feedback (default)
SW5	Select External Heater Function
ON	Enable support for external heat

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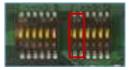
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For the external thermistor, use the external room sensor (MRW-TA) supplied by Samsung Electronics.

SW6	External Thermistor(NTC) setting
ON	Use External Thermistor
OFF	Do not use External Thermistor (default)



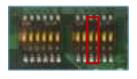
SW7	SW8	Stage 1, 2 Heat sources option
ON	ON	W1 (Stage 1 heat) energized : SAMSUNG AC OFF
ON		W2 (Stage 2 heat) energized : SAMSUNG AC OFF
ON	OFF	W1 (Stage 1 heat) energized : SAMSUNG AC OFF
ON		W2 (Stage 2 heat) energized : Turn on SAMSUNG AC with Heat Mode
OFF	ON	W1 (Stage 1 heat) energized : Turn on SAMSUNG AC with Fan Mode
OFF		W2 (Stage 2 heat) energized : Turn on SAMSUNG AC with Heat Mode
OFF	OFF	W1 (Stage 1 heat) energized : Turn on SAMSUNG AC with Heat Mode (default)
		W2 (Stage 2 heat) energized : Turn on SAMSUNG AC with Heat Mode (default)

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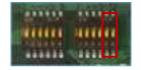
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24VAC Thermostat Adapter MIM-A60UN



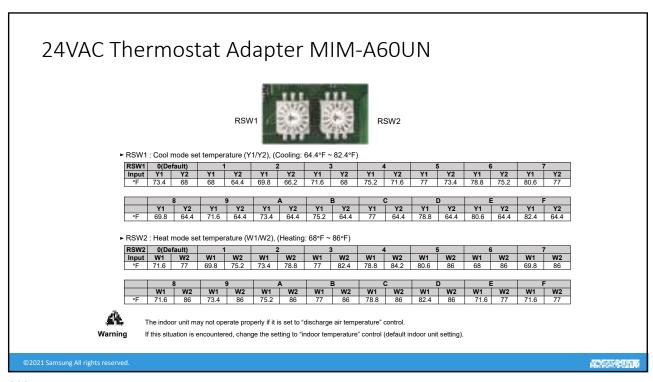
SW9	SW10	In case of using 'G' Input
ON	ON	FAN Speed (LOW)
ON	OFF	FAN Speed (MID)
OFF	ON	FAN Speed (HIGH)
OFF	OFF	FAN Speed : Auto (default)

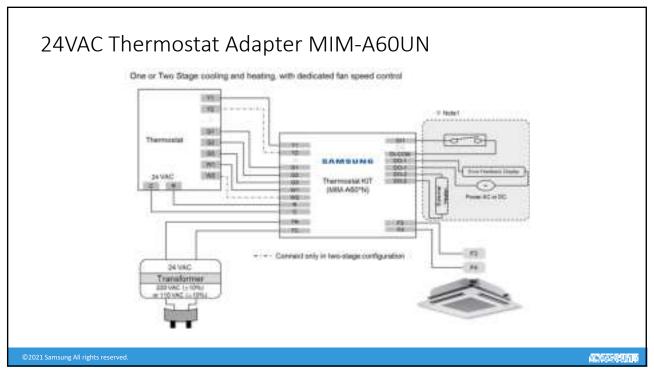


SW11	SW12	If using 'G' Input under thermal off condition
ON	ON	FAN Speed (HIGH)
ON	OFF	FAN Speed (LOW)
OFF	ON	FAN Speed (MID)
OFF	OFF	FAN Speed (HIGH) (default)

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NAME OF THE OWNER,





DVM Chiller Control

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Samsung's DVM Chiller

Capacities and Specifications



DVM Chiller~

Available capacities - 10 | 15 ton modules (Heat pump only)

- Connect up to 16 units for system capacities up to 240 tons
- 208-230V / 60Hz / 3 Ø or 460V / 60Hz / 3 Ø
- Outdoor unit static pressure up to 0.32" WC
- Water temperature ranges
 - Cooling: 41°F 77°F (5°C 25°C) as standard, 14°F – 77°F (-10°C – 25°C)*
 - Heating: 77°F 131°F (25°C 55°C)**

~Requires FCU Interface Module

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