

## Touch Centralized Controller for Samsung DVM S Systems

Job Name \_\_\_\_\_  
 Purchaser \_\_\_\_\_  
 Submitted to \_\_\_\_\_  
 Unit Designation \_\_\_\_\_

Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
 Schedule # \_\_\_\_\_

**Features**

- 7" touch LCD controller
- Maximum 128 indoor units and Samsung ERV's
- Allows creation of zones for indoor unit grouping (12 maximum) with customizable zone icons
- Can connect and control up to 16 X DVM S systems (see page 2 for more details)
- 2 X digital input terminals for dry-contact connection to disable/enable all connected equipment (3 optional configuration settings)
- 1 X digital output terminal for system operation status output, 12 VDC, 10 mA max. (short: 1 or more indoor units are ON. Open: all indoor units are OFF)
- SD card slot for data backup and future software updates

**Convenience**

- Scheduling (maximum 10 schedules)
- All ON/OFF button
- Indoor unit operation mode, set temperature, fan speed, controller use/restriction enable/disable, louver control, and filter reminder reset setting/checking.
- Cooling and heating temperature (desired temperature) limit setting
- Group/zone control
- Operation mode restriction setting
- Screen lock
- Restrict: ON/OFF, mode, set temperature, fan speed, advanced settings, and remote control use (basic indoor unit settings) for daily users
- Menu lock (restrict indoor unit control, schedule setting/changing, and controller settings for daily users)
- LCD ON/OFF button/indicator on front of controller to turn display ON/OFF (blue indicator: 1 or more indoor units are ON. Red indicator: indoor unit/system error is present)
- Option to group multiple indoor units to display as one indoor unit on user interface

**Specifications**

Compatible with DVM S systems (AM\*\*\*\*X\*\*\*\*AA), DVM Chiller (AG0\*\*\*\*\*/AA), CAC 1:1 systems (AC0\*\*\*\*\*/AA) without additional hardware/adapters. Compatible with the following systems using MIM-N01 communication interface module: FJM multi-zone systems (AJ0\*\*\*\*CH/AA), DVM Plus III and earlier VRF models. Compatible with Fresh Access™ ERV units (AN\*\*\*\*SEDAVAA) using MXD-K200VN ERV kit at every ERV and 1 X MIM-N10 ERV interface module per 16 ERV Kits. Compatible with FCU Kit (MIM-F00N) using one MIM-F10N FCU kit interface module per 16 FCU Kits.

**Maximum:**

- 64 indoor units, 1 system, and 16 MCU's when connected to F1/F2 (system/set layer)
- 128 indoor units and 16 systems when connected to R1/R2 (control layer)

100 - 240 VAC, 50/60Hz

RS485 communication

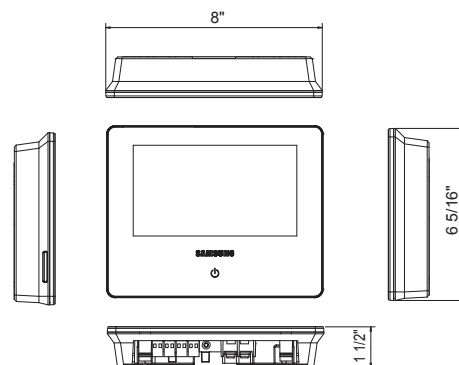
Can connect to R1/R2 or F1/F2 communication wires (see page 2 for details)

Up to 16 X MCM-A300N controllers can connect together on R1/R2 or F1/F2 communication line

Up to 15 X MCM-A300N controllers can connect together on R1/R2 communication line when used with MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-N17BN, MIM-B18N, and MIM-B18BN gateways

16 AWG X 2 shielded wire for all R1/R2 and F1/F2 communication wiring

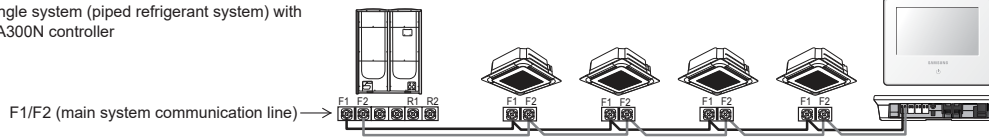
See next page for installation examples and limitations



Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

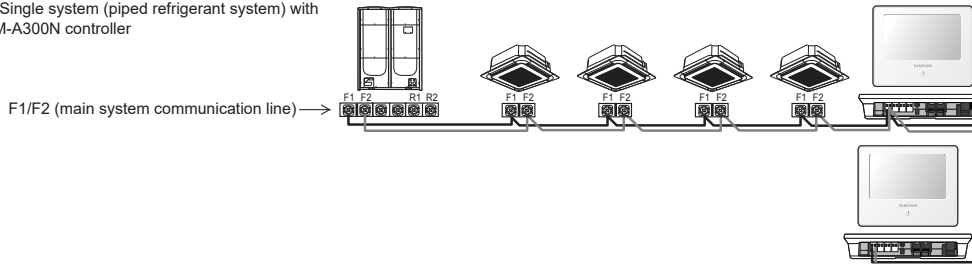
## Set Layer - Connection to DVM S main communication line (F1/F2) when controlling a single system

Case 1: Single system (piped refrigerant system) with 1 X MCM-A300N controller



When connected to F1/F2, connection with MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-B17BN, MIM-B18N, and MIM-B18BN is not possible.

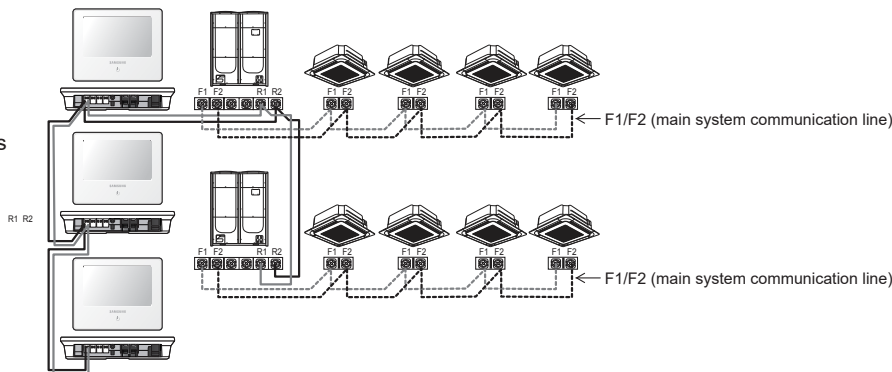
Case 2: Single system (piped refrigerant system) with 2 X MCM-A300N controller



Maximum 16 X MCM-A300N controllers on a single R1/R2 communication line

## Control Layer - Connection to multiple DVM S systems with 1 or more MCM-A300N controllers

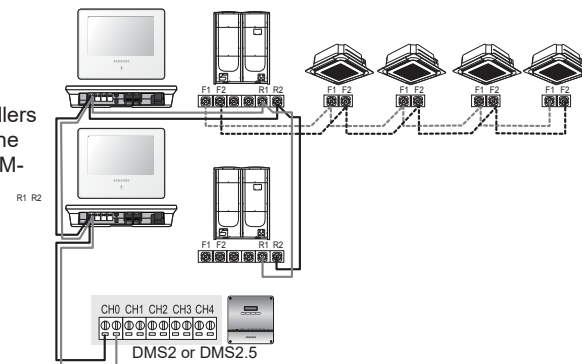
Maximum 16 X MCM-A300N controllers on a single R1/R2 communication line



## Control Layer - Connection to multiple DVM S systems with 1 or more MCM-A300N controllers and 1 DMS2

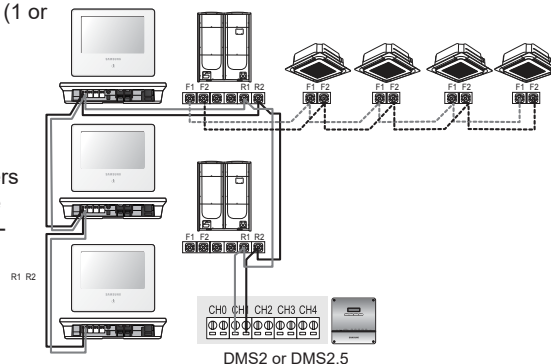
Case 1: DMS2 and DMS2.5 connection to MCM-A300N R1/R2 terminals.

Maximum 15 X MCM-A300N controllers on a single R1/R2 communication line when connected to MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-B17BN, MIM-B18N, MIM-B18BN



Case 2: DMS 2 and DMS2.5 connection to R1/R2 terminals in outdoor unit when MCM-A300N (1 or more).

Maximum 15 X MCM-A300N controllers on a single R1/R2 communication line when connected to MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-B17BN, MIM-B18N, and MIM-B18BN



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The diagrams on this page are for reference only. Refer to installation manual for wiring and installation instructions. Other configurations may be possible.