

- 1000D Daikin
- 2000S Sanyo
- 3000T Toshiba
- 4000M Mitsubishi Electric
- 5000C Custom Designed

CoolMaster

RS232 Interface Adapter for

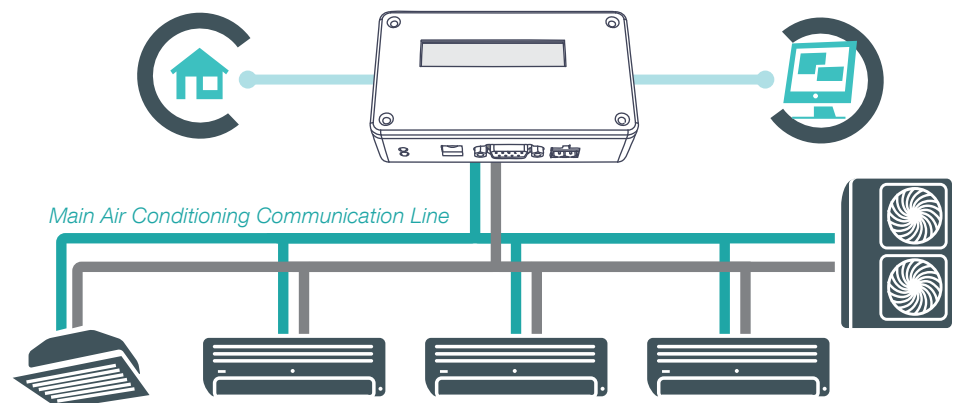
VRV, VRF Air Conditioning Systems



CoolMaster is versatile bridge device connecting numerous Air Conditioning systems and any RS232 or USB capable device like Home PC, Embedded PC or Home Automation Controller. Exposing simple interface over RS232 communication line or USB bus, CoolMaster gains user application full control on indoor units and provides access to VRV, VRF system parameters. In other words CoolMaster hides complexity of internal Air Conditioning Communication line (including very unique physical layer) and instead gives simple, comprehensive, well documented protocol running on popular RS232 or USB connection.

Home Automation
& Building Management Systems

Personal Computer

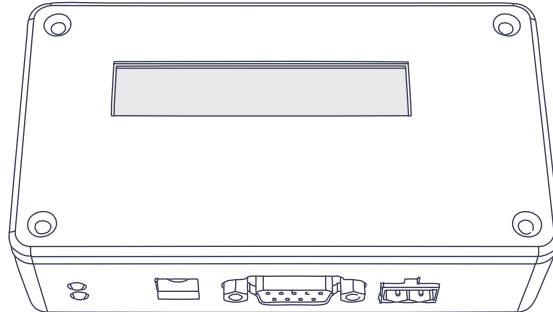


CoolMaster

RS232 Interface Adapter for VRV, VRF Air Conditioning Systems

Compatibile systems

1000D Daikin ● 2000S Sanyo ● 3000T Toshiba ● 4000M Mitsubishi Electric ● 5000C Custom Designed



Full Control over Indoor Units Operation

- On/Off control
- Cool | Heat | Fan | Dry mode selection
- Set Temperature Control
- Fan Speed Control
- Swing Control (for wall mounted and cassette types)
- Filter Reset Sign
- Group Operations (All On, All Off).

CoolMaster unit can be extended

With additional Hardware modules up to 4-GPIO.

Connection to split systems

CoolMaster can also be used for interfacing smaller split air conditioning systems. In this case an interface adapter has to be used for each indoor (or in some cases outdoor) unit.



Outdoor and Indoor Units Monitoring

- Failure Alarms
- Set point temperature
- Operation status (on/off)
- Operation mode (cool/heat/fan/dry)
- Fan speed (high/medium/low/auto)
- Filter sign
- Swing



Unified RS232 Interface

All CoolMaster products impose unified RS232 interface. It means for example that home automation application working on Daikin VRV system with CoolMaster 1000D will work exactly the same way on Sanyo, Toshiba and other VRF systems with other types of CoolMaster, and no special interface adaptation will be required to migrate from one CoolMaster type to another.



Easy to integrate with Home Automation Systems and PC applications

CoolMaster Interface is very simple and straightforward. Implementation of software modules to support CoolMaster is not complex at all.



Field Upgradable

New Firmware can be uploaded via RS232 port using a simple PC or Laptop. The customer can easily perform the firmware update by himself without opening the unit.



System Diagnostics

(An option for advanced users.)
Outdoor Units internal parameters: Condensing, Evaporation, Ambient Temperatures, EV Opening, System Power Consumption (current), Inverter Revolutions and others.
Indoor Units internal parameters: Return Air, Gas and Liquid Temperatures, EV Opening.



Plug and Play Device

No additional configuration required after connecting the wiring, supplying the power and defining addresses of the indoor units, the system is ready to work.