

EIMnet Communication Protocol Module

EIMXM

【Description】

EIMXM communication protocol module is a remote control unit using MODBUS RTU/ASCII communication format to communicate with third party devices. Compatible with any Airtek controller which has an EIMnet port. EIM..M uses 32-bit microprocessor core, transmission rate up to 38,400 bps. EIMXM is a standalone protocol converter for integration of the automation control system in industrial or commercial buildings. Application such as Electrical Meters, chillers, boilers, generators, UPS, Lift and Lighting systems etc.



【Features】

- RS-485 communication interface works with any AIRTEK controller which has an EIMnet port.
- Address DIP switch can be set the range of 1 to 24.
- LED send/receive communication indicator shows data transmission status.
- Each module will occupied maximum 32 x BI or 32 x AI or 16 x BO or 16 x AO of EIMnet I/O Points.
- EIM's BI/AO/BO/AO software points can be transfer into the DDC controller without complicated settings or conversion.
- Provides RS-232 interface for internal parameters initial setup or modification. The default value of this device can be modified by using null modem or AD-linker tool and the specialized EIMXM editor software.
- Slide track design for space-saving and easy installation.
- Plug-in terminal blocks and LED Indicators of communication.

【Specification】

Model	Max. Occupied EIMnet I/O Points				Max. Number of EIM module on each EIMnet port				
	BI	AI	BO	AO	DSC....B	DAC....B	GC-DB01	WC/GC8846	WC-RB11/12
EIMXM	32	32	16	16	12	12	24	24	24

Power Supply : 24VAC/VDC, 3VA.

Microprocessor : 32-bit high performance MCU.

EIMnet Port : MODBUS RS-485 bus, communication speed 9,600/19,200/38,400 BPS adjustable.

TDnet Port : MODBUS RTU RS-485 interface, communication speed 9,800/19,200/ 38,400 bps adjustable, max. Distance 1,200 meters, can integrate MODBUS slave devices.

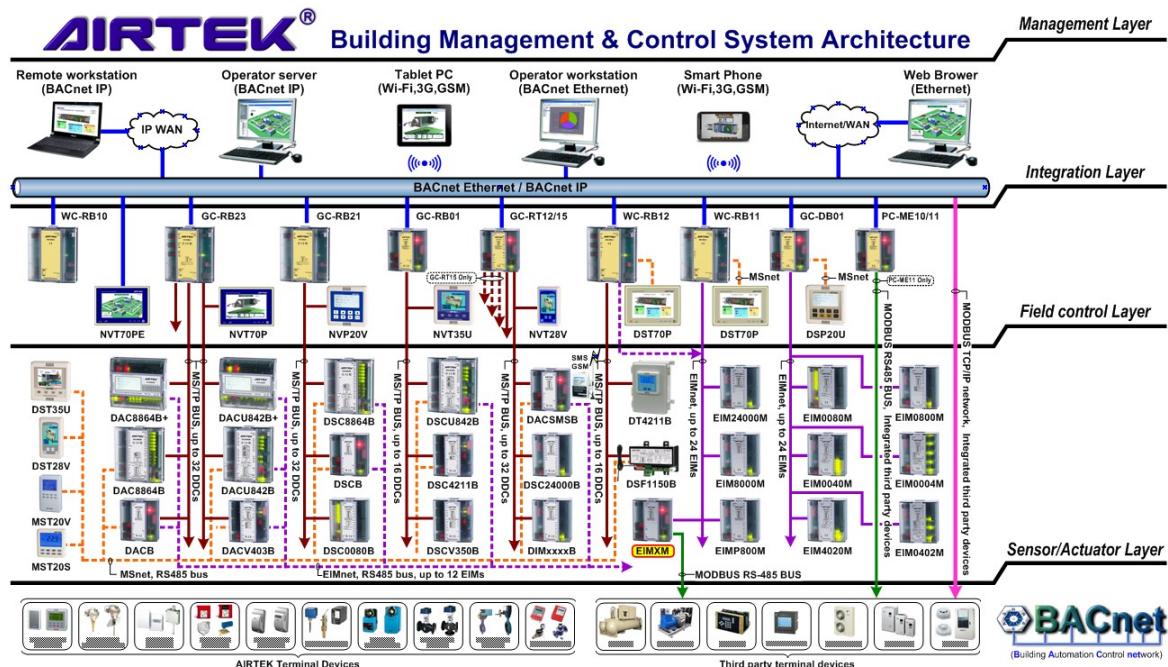
Environment : 0 ~ 50°C, 20 ~ 90%RH.

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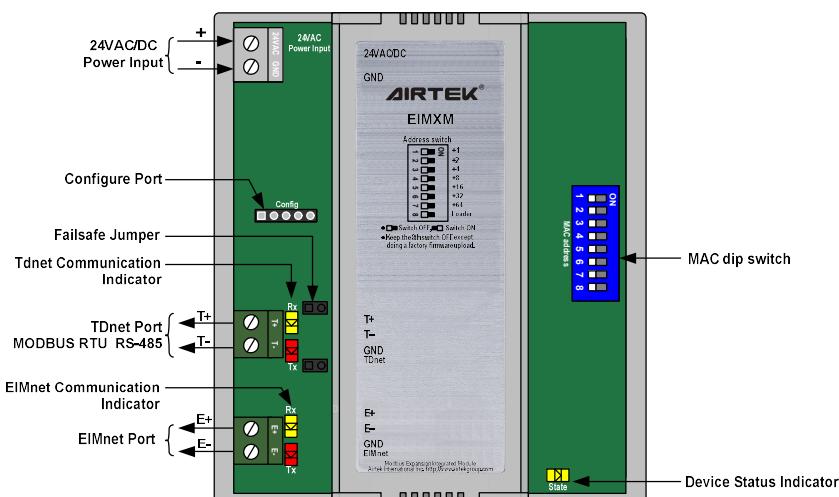
【Installation】

- Recommend the use of Isolation transformer. Do not share power supply with another devices.
- EIMnet is a RS-485 communication network, please use wire 2C#AWG18 ~22 shielded twisted configuration, and placed in metal conduit EMT piping. Do not run communication cable with power cables to avoid interference.
- RS-485 network must comply with daisy chain configuration, do not use T or Star shape configuration.
- RS485 network should be installed around the 120Ω termination resistors at both ends, the total length should not exceed 1,200 meters.

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

