

BACnet Integration Device

GC-DB11

BACnet Ethernet Global Controller (Bacnet IP)

【Description】

GC-DB11 is Stand Alone controller (B-BC) with router function with an EIMnet expansion port and MSnet screen/modbus Port only. It can allow communicate between workstation and Bacnet IP/ethernet controllers as well as providing a supervisory role to any other Bacnet device. There is one 100M Bases-TX Ethernet port - BACnet Ethernet or BACnet/IP for Lan communications. Fully functioning controller with Inbuilt standard programmable logic functions and BACnet object functions such as calendar, schedule, notification class, event enrollment, trend-logs etc. BTL listed and approved means it can communicate with any other Bacnet manufacturer products.



【Features】

- Conforms to BACnet Ethernet ISO-8802-2, BACnet/IP protocol. BTL approved.
- Use 32-bit microprocessor, frequency 55MHz.
- 128K RAM /512KB Flash, 32K FRAM for power failure memory.
- B-BC level standard BACnet compliant controller plus network router function.
- Ethernet communication interface can be either BACnet Ethernet(ISO-8802-2) or the BACnet/IP communication protocol.
- EIMnet port RS-485 communication interface, transmission distance 1,200 meters, up to 24 EIM expansion modules can be connected in any sequence. Auto or manual configured.
- Each port has 2500Vrms optical coupling isolator and TVS ARRAY surge protection.
- RS-232 connection for initial device parameters (Using a Airtek Terminal or any Terminal program such as HyperTerminal).
- On-line editing (does not affect other devices on the network), real-time program debugging function.
- Operation functions of proportional, integration, differential, floating, logic, mathematic, enthalpy and dew point etc. Program executes cycle time 1 second.
- Real-time clock, 10 Calendars, 100 Schedules, 10 Notification Class, 100 Event Enrollments, 100 Trend-logs, standard BACnet objects. Schedules and event enrollments support external object access.
- Possessed 1000 analog value (AV) points, 1000 binary value (BV) points (BV points have 16 priority arrays).

【Specification】

Model	EIM QT'Y	Calendars	Schedules	Notification	Event	Trend-logs	BV Points	AV Points
GC-DB11	24	10	100	10	100	100	1000	1000

Power Supply : 24VAC/DC, 5VA.

Microprocessor : 32-bit high performance microprocessor with 128K RAM and 512K Flash memory.
and 32K FRAM as power failure memory.

Ethernet Port : 10/100M Ethernet port with BACnet Ethernet(ISO-8802-3) or BACnet IP communication protocol.

EIM Port : RS-485 bus with up to 24 expansion modules.

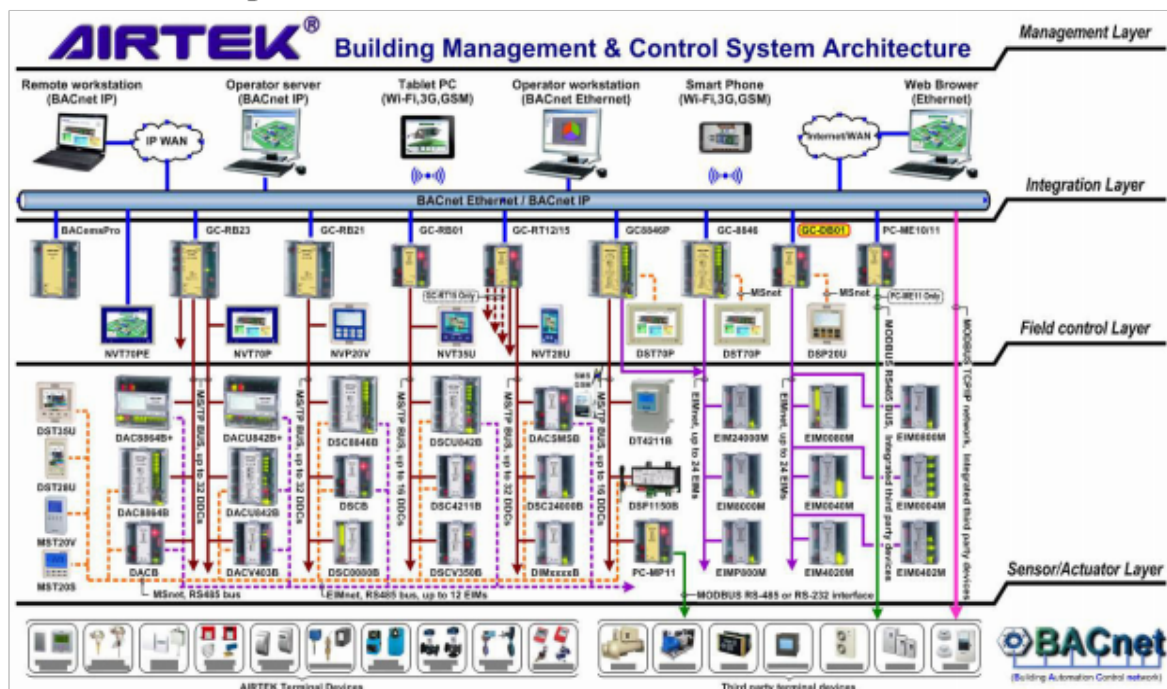
MSnet Port RS485 Modbus RTU or Airtek screens, max. length 1,200 meters.

Clock : A gold capacitor to back up clock for 48 hours after power failure.

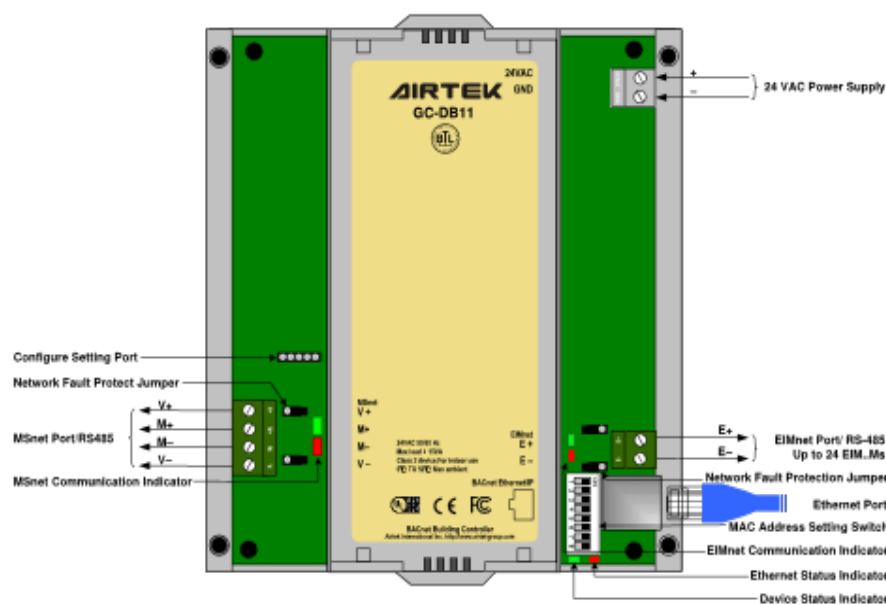
Environment : 0~70°C, 0~95%RH, non-condense.

Certificate : BTL, EMC Directive 89/336/EEC (European CE Mark) UL.

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

