

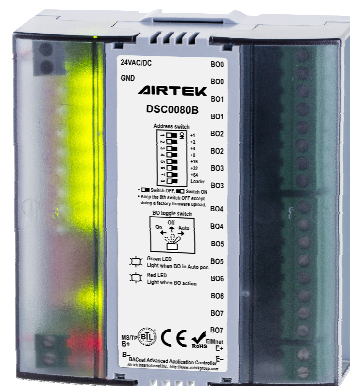
# Field Control Layer Device

## BACnet Application Specific Controller

# DSC0080B

### 【 Description 】

DSC0080B is a standalone BTL listed BACnet B-ASC class programmable controller. It is designed for monitor and control building electromechanical device, small AHU, clean room, fume hood, small-scale end device control. It uses 32-bit microprocessor core, transmission rate up to 76,800 bps, transmission distance up to 1,200 meters. DSC0080B has 8 Binary Outputs(BO). In addition, it has an EIMnet port can connect 12 EIM expansion modules. Total number of I/O points can be selected by using different combinations of EIM. DSC0080B conforms to international BACnet MS/TP communication protocol, and fully compatible with any BACnet system. It is absolutely the best product for your building.



### 【 Features 】

- BACnet Application Specific Controller (B-ASC) class listed device.
- MS/TP(Master-Slave/Token-Passing) communication interface connect to the upper layer, global controller.
- EIMnet communication interface can connect up to 12 EIM I/O expansion modules, maximum limit less than 100 points.
- Binary output (BO) has 5,000Vrms optical coupling isolates, status indicators.
- The user's control program can be downloaded, edited and saved in flash memory of the controller.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 100 Binary Value(BV) and 100 Analog Value(AV) points.
- Priority control array by 16 for all BO, AO and BV.
- The analog value adopts high precision floating-point calculation.
- Provide power failure backup functions for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.
- Slide track design for space-saving and easy installation.

### 【 Specification 】

| Model    | BI Points | AI Points | BO Points | AO Points | EIM QT'Y | BV Points | AV Points |
|----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|
| DSC0080B | 0         | 0         | 8         | 0         | 12       | 100       | 100       |

**Power Supply** : 24VAC/VDC, 5VA.

**Microprocessor** : 32-bit high performance MCU, 10K RAM, 8K FRAM and 64K Flash memory.

**Binary Output** : 7A/250VAC non-voltage SPST contact output, having 5,000Vrms optical coupling isolate.

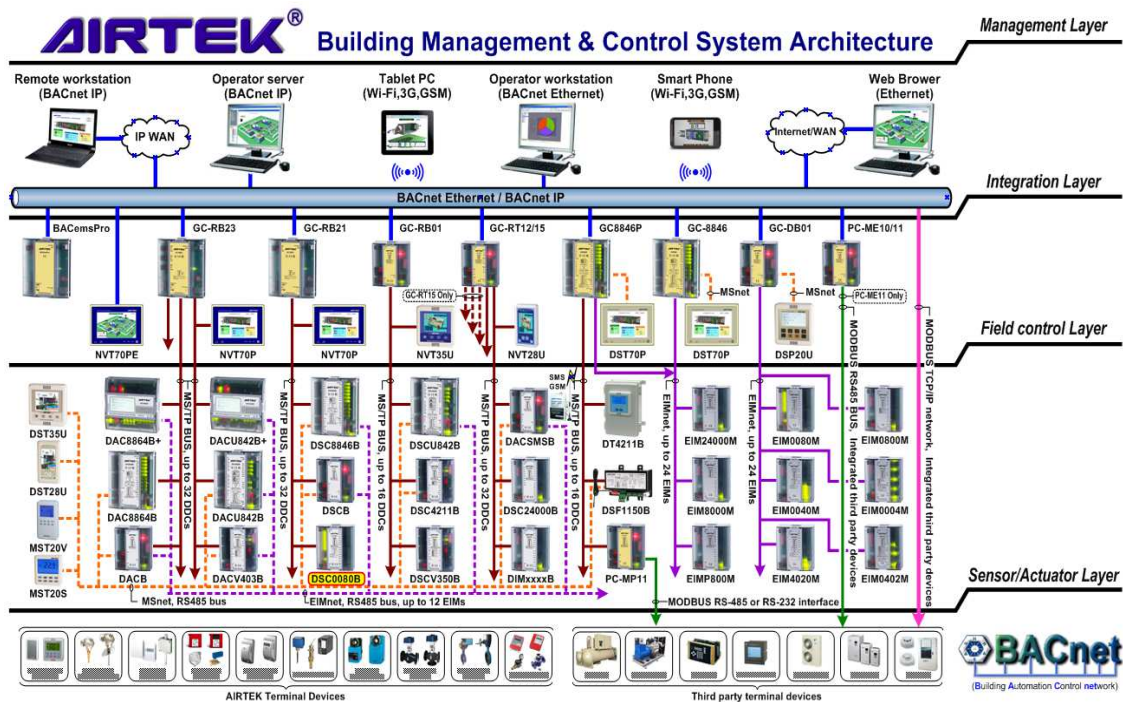
**MS/TP Port** : RS-485 , communication speed up to 76,800 BPS auto select, max. length 1,200 meters.

**EIMnet Port** : MODBUS RTU RS-485, communication speed 38,400 bps, max. length 1,200 meters, up to 12 EIMs.

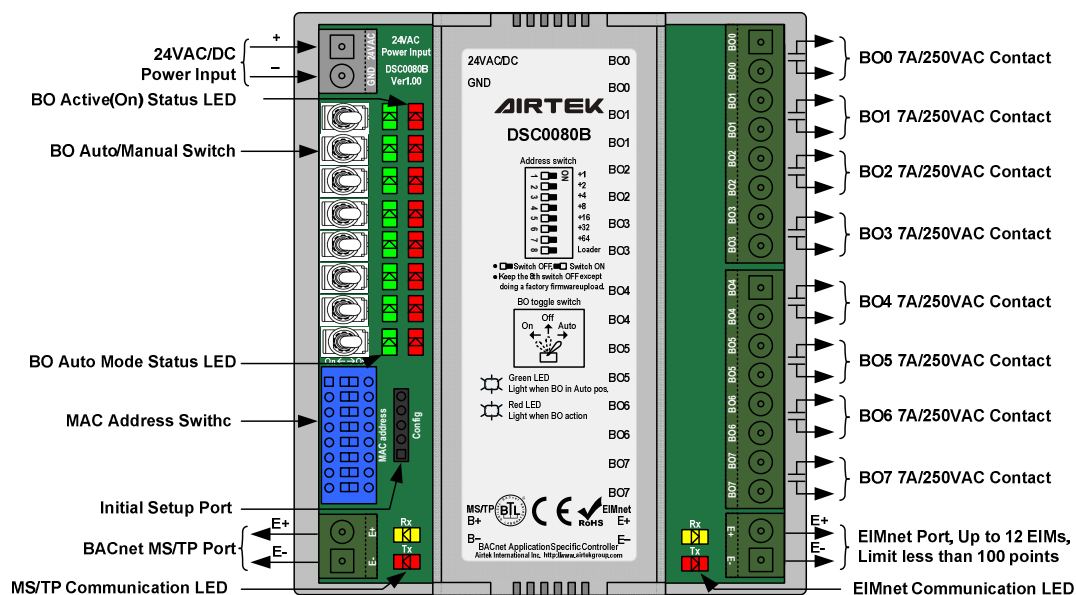
**Environment** : 0~50℃ , 5~95%RH, non-condensing

**Certification** : CE, BTL(B-ASC), RoHS

## 【Network Architecture】



## 【Wiring Diagram】



## 【Dimension】 Unit : mm

