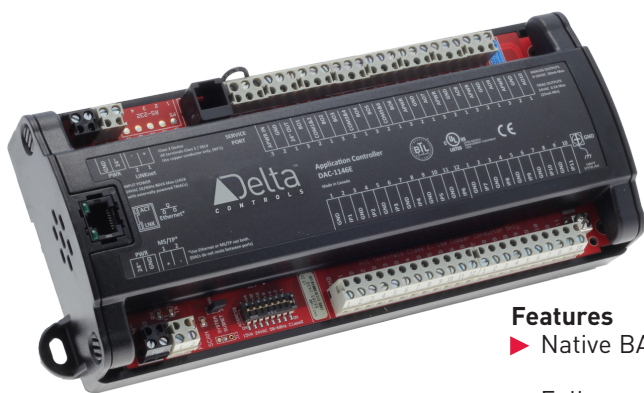


Application Controllers

DAC-1146 / DAC-1146E

Description

The DAC-1146 is a fully programmable, Native BACnet® Advanced Application Controller that either communicates on Twisted-Pair Ethernet 10-BaseT using BACnet IP and BACnet over Ethernet or an RS-485 LAN using the BACnet MS/TP protocol. It is designed for a wide-range of applications that have medium local I/O requirements. It also supports BACstat® and other Delta LINKnet devices.



Application

The DAC-1146 is suitable for controlling various packaged units and equipment with medium I/O requirements such as small air handling units, boilers, and chillers.

The fully programmable DAC-1146 can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

Features

- ▶ Native BACnet firmware
- ▶ Fully programmable in GCL+
- ▶ BACnet MS/TP communications (DAC-1146), BACnet/IP and BACnet Ethernet (DAC-1146E)
- ▶ Super Capacitor for real-time clock and SRAM backup which requires no maintenance (DAC-1146E)
- ▶ Supports 10 BACstat network sensors on LINKnet for room sensing and control, or 2 Delta Field Modules on LINKnet for I/O expansion
- ▶ Actuator power terminal (24 VAC) for each analog output (can be powered internally or from an auxiliary transformer)
- ▶ Firmware upgrade and database load/save over the network
- ▶ Supports Modbus® capability via flash loading in the field
- ▶ Service port
- ▶ Screw or DIN rail mountable

Specifications

BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

Inputs

11 Universal Inputs (10 bit) supporting:
0-5VDC
0-10VDC
10KΩ
4-20mA

Outputs

6 Binary TRIAC Outputs (jumper configured for internal or external power)

4 Analog Outputs (0-10VDC)

LED status indication of each output

Technology

DAC-1146
32-bit processor
1MB flash memory
127KB SRAM memory for database
LED indication of CPU and SCAN status

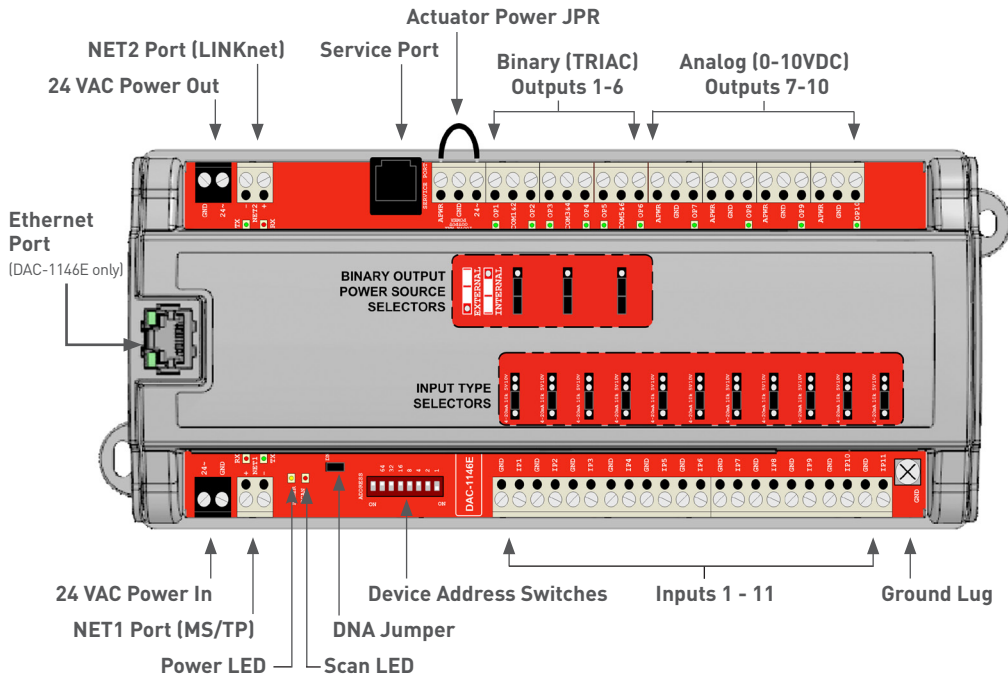
DAC-1146E
32-bit processor
2MB flash memory
319KB SRAM memory for database
LED indication of CPU and SCAN status
Real-time clock
Super Capacitor for 72-hour backup of realtime clock and SRAM

Device Addressing

Set via DIP switch and jumpers, or software setup

Application Controllers

DAC-1146 / DAC-1146E: Board Layout Diagram



Specifications (Continued)

Communications Ports

Twisted Pair Ethernet (10-BaseT) @ 10MB, BACnet IP, BACnet over Ethernet (optional)

RS-485 NET1

BACnet MS/TP @ 9600, 19200, 38400 or 76800 bps (default), maximum of 99 devices per BACnet MS/TP segment

RS-485 NET2

Delta LINKnet @ 76800 bps, maximum 10 devices on LINKnet, with no more than 2 DFM devices

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

24 VAC
14 VA, 86 VA with BOs fully-loaded

Ambient

32° to 131°F (0° to 55°C)
10-90% RH (non-condensing)

Dimensions

10^{3/8} x 4^{1/4} x 1^{15/16} in. (26.2 x 10.7 x 4.9 cm)
with housing
0.944 lb. (428 g) with housing

Compliance

CE
FCC

Listings

C-UL
UL 916
BTL

BACstat is a registered trademark of Delta Controls Inc.
BACnet is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Updated September 3, 2013

Subject to change without notice.

Ordering

Order the DAC-1146 with the desired options according to the following product numbers:

DAC-1146	Delta Application Controller 11 inputs, 4 AO's, 6 BO's, MS/TP
DAC-1146E	Delta Application Controller 11 inputs, 4 AO's, 6 BO's, Ethernet
	Note: When using Ethernet, MS/TP protocol is not available (RS-485 ports can be used for LINKnet and/or special interfaces only).

Accessories

DZNR-768	Delta network repeater for BACnet MS/TP
TRM-768	Delta network terminator for BACnet MS/TP
CON-768BT	Bluetooth wireless service tool