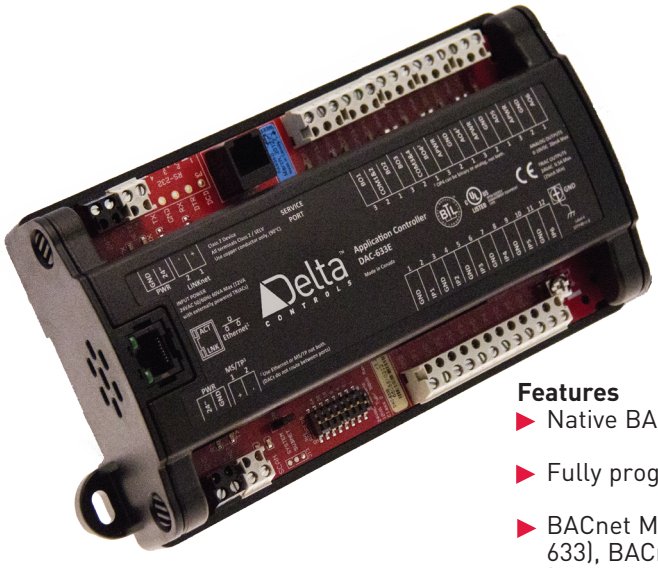
Application Controllers

DAC-633 / DAC-633E

Description

The DAC-633 is a fully programmable, Native BACnet™ Advanced Application Controller that communicates on Twisted-Pair Ethernet 10-BaseT using BACnet IP and BACnet over Ethernet, or on an RS-485 LAN using the BACnet MS/TP protocol. It is designed for a wide-range of applications that have small local I/O requirements. It also supports BACstats and other Delta LINKnet devices.



Application

The DAC-633 is suitable for controlling various packaged units and equipment with small I/O requirements such as Fan Coil units, Unit Ventilators, Heat Pumps, and small Boilers or Chillers.

The fully programmable DAC-633 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-633), BACnet/IP and BACnet Ethernet (DAC-633E)
- Super Capacitor for real-time clock and SRAM backup (requires no maintenance) on DAC-633E
- Supports 6 BACstat network sensors on LINKnet for room sensing and control or 2 Delta Field Modules on LINKnet for I/O expansion
- Actuator power terminal (24VAC) 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
6 Universal inputs - 10 bit (supporting 0-5v, 0-10v, 10kΩ, 4-20mA)

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

3 Analog outputs (0-10v)

LED status indication of each output

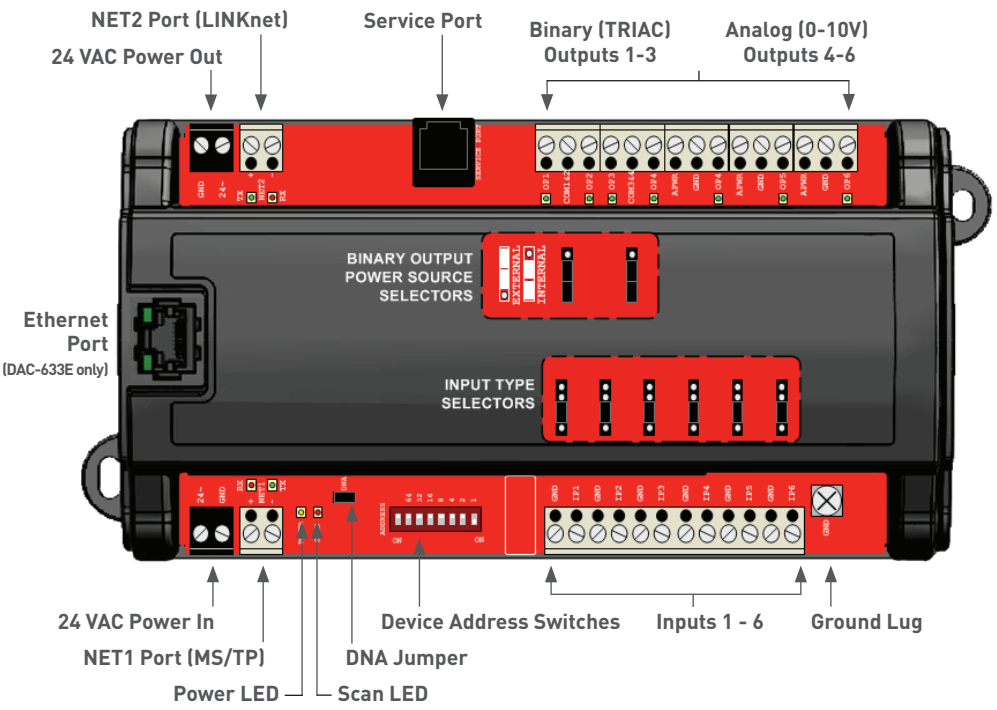
Technology
DAC-633
32-bit processor
1 MB Flash memory
127 KB SRAM memory for database
LED indication of CPU and SCAN status

DAC-633E
32-bit processor
2 MB Flash memory
319 KB 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-633 / DAC-633E: Board Layout Diagram



Ordering

Order the DAC-633 with the desired options according to the following product numbers:

DAC-633	Delta Application Controller 6 inputs, 3 AO's, 3BOs
DAC-633E	6 inputs, 3 AOs, 3 BO's, Ethernet
DAC-633-UL864	6 inputs, 3 AOs, 3 BOs, UL 864 Listed

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

Specifications (Continued)

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

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 6 devices on LINKnet, with no more than 2 DFM devices)

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VAC

12VA, 48VA with BOs fully-loaded

Ambient
32° to 131°F (0° to 55°C)

10 - 90% RH (non-condensing)

Dimensions
81/2 x 41/4 x 115/16 in. (21.8 x 10.7 x 4.9 cm)
with housing

0.80 lb. (360 g) with housing

Compliance
CE
FCC

Listings
C-UL
UL 916
BTL
UL864 (DAC-633-UL864 only

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Subject to change without notice.