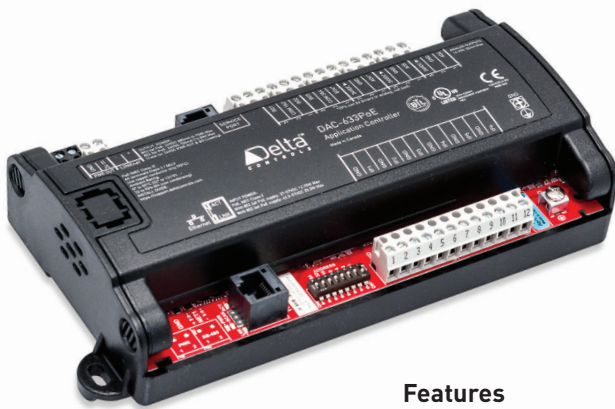# Application Controllers

## DAC-633PoE

### Description

The DAC-633PoE is a fully programmable, native BACnet® Advanced Application Controller for low density I/0 applications featuring Power over Ethernet (PoE). PoE provides high speed communications and device power in a single cable, simplifying wiring and eliminating the need for a local control transformer.



### Application

The DAC-633PoE is suitable for controlling a wide range of equipment with small I/O requirements. It is particularly suited to applications such as fan coils or unit ventilators which often do not have a local step down transformer to provide controller power.

The fully programmable DAC-633PoE can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

### Features

▶ Power over Ethernet (PoE)

▶ Local scheduling, trending and alarming functions

▶ Fully programmable

▶ BACnet IP and BACnet over Ethernet Main LAN communications

▶ Super Capacitor for real-time clock and SRAM backup

▶ RS-485 subLAN supports BACstat® smart network sensors, DFM I/O expansion modules or optional Modbus® gateway

▶ Actuator power terminal (24VDC) for each analog output simplifies wiring

▶ Firmware upgrade and database load/save over the network

▶ Service port

▶ Screw or DIN rail mountable

▶ LED indicator for each output, CPU and SCAN status

### Specifications

**BACnet Device Profile**
BACnet Advanced Application Controller (B-AAC)

**Inputs**
6 Universal Inputs (10-bit), jumper configurable for:
    0-5 VDC
    0-10 VDC
    10 kΩ Thermistor
    4-20 mA
    Dry Contact (using 10 kΩ Thermistor jumper setting)

1 Internal Power Monitoring Input, measures total power consumption of DAC-633PoE

**Outputs**
2 Analog Outputs
    0-10 VDC @ 20 mA max per output
    Software configurable as binary or analog

3 Binary SSR Outputs
    24 VDC (Internally powered)
    24 VAC/DC (Externally powered)

1 Universal Output
    Configurable as either 0-10 VDC or 24 VDC SSR

**Device Addressing**
Software addressed

**Connectors**
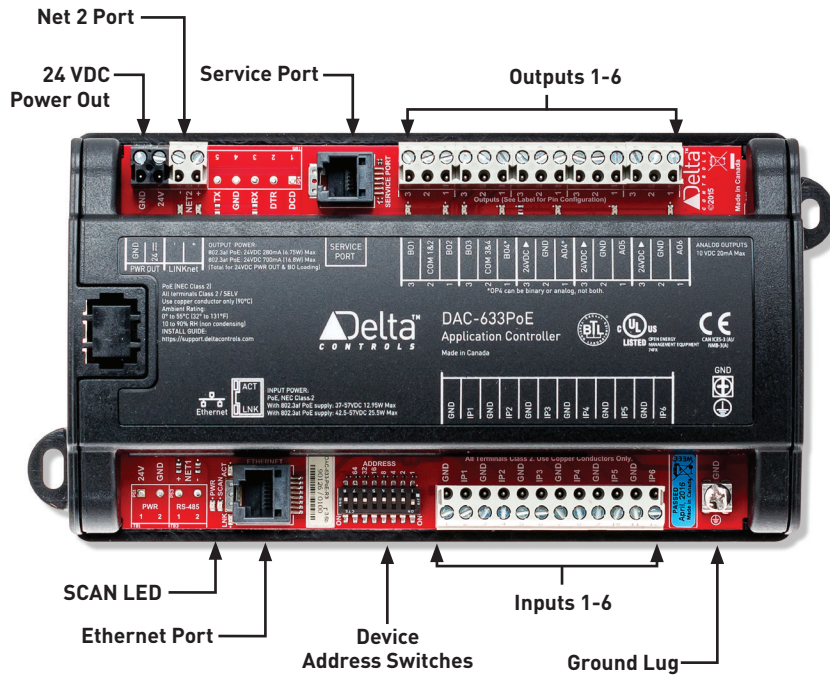Removable screw-type terminal connectors

**Wiring Class**
NEC Class 2 / SELV

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BACnet is a registered trademark of the American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc. EnOcean is a registered trademark of the EnOcean Alliance Inc.

Updated May 2016

Delta
CONTROLS™

# Application Controllers

## DAC-633PoE: Board Layout Diagrams



Net 2 Port

24 VDC Power Out

Service Port

Outputs 1-6

SCAN LED

Ethernet Port

Device Address Switches

Inputs 1-6

Ground Lug

## Ordering

Order the DAC-633PoE according to the following product numbers:

| | |
|---|---|
| DAC-633PoE | Delta PoE application controller 6 universal inputs, 2 analog outputs, 3 binary outputs, 1 universal output (0-10 VDC analog or 24 VDC On/Off) |

### Accessories

| | |
|---|---|
| DNS-x24 | Delta network sensor with LCD / push-button interface and up to 4 input options (temperature, humidity, CO2 and motion) |
| CON-ENOC-xxx | Delta EnOcean® Zone Gateway supporting up to 32 EnOcean wireless devices |
| CON-768BT | Bluetooth wireless service tool |

## Specifications (Continued)

### PoE Power In
802.3at PoE: 53 VDC, 25.5 W max*
802.3af PoE: 48 VDC, 12.95 W max*
*See installation guide for details on calculating PoE power budget.

### 24 VDC Power Out
802.3at PoE supply: 700 mA (16.8 W) max**
802.3af PoE supply: 280 mA (6.75 W) max**
**Max total power available for external field devices powered from 24 VDC out terminal and binary outputs 1–4.

### Technology
16-bit processor
2 MB (16 megabit) Flash memory
319 KB SRAM memory for database
Real-time clock
Super Capacitor for 72-hour backup of real-time clock and SRAM

### Communications Ports
Main LAN
    Ethernet (10-BaseT)
    BACnet IP, BACnet over Ethernet

SubLAN
    RS-485 NET2
    Delta LINKnet up to 76800 bps, max 12 devices on LINKnet with no more than 2 DFM devices
    Optional Modbus up to 38400 bps, max 5 devices

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

### Dimensions
26.2 x 10.7 x 4.9 cm
(10⁵/₁₆ x 4¼ x 11⁵/₁₆ in.)

### Weight
435 g (0.959 lb.)

### Compliance
CE
FCC

### Listings
C-UL Listed
UL 916 Listed
BTL Listed

Subject to change without notice.