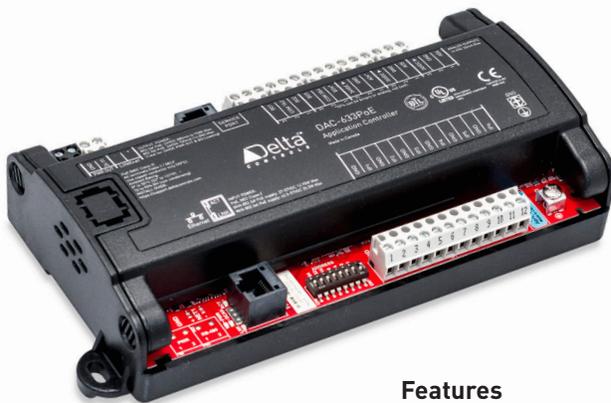


# Application Controllers

## DAC-633PoE

### Description

The DAC-633PoE is a fully programmable, native BACnet® Advanced Application Controller for low density I/O 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

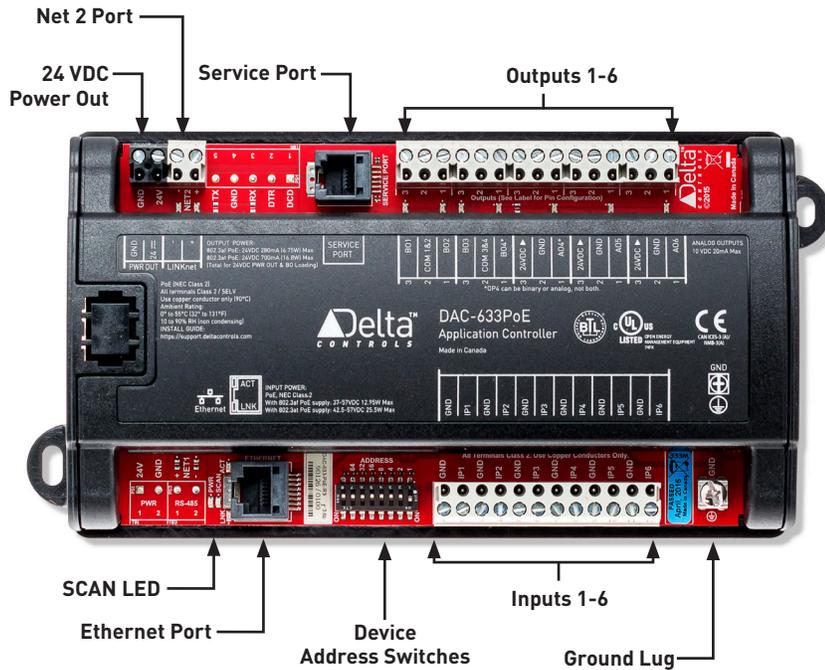
NEC Class 2 / SELV

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Updated April 2020

# Application Controllers

## DAC-633PoE: Board Layout Diagrams



### Ordering

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

<b>DAC-633PoE</b>	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)
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### Accessories

<b>DNS-x24</b>	Delta network sensor with LCD / push-button interface and up to 4 input options (temperature, humidity, CO2 and motion)
<b>CON-ENOC-xxx</b>	Delta EnOcean® Zone Gateway supporting up to 32 EnOcean wireless devices
<b>CON-768BT</b>	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 6 devices on LINKnet with no more than 2 DFM devices  
Optional Modbus up to 38400 bps, max 5 devices

#### Ambient

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

#### Dimensions

262 × 107 × 49 mm (10<sup>5</sup>/<sub>16</sub> × 4<sup>1</sup>/<sub>4</sub> × 11<sup>5</sup>/<sub>16</sub> in.)

#### Weight

435 g (0.959 lb)

#### Compliance

CE  
FCC  
EAC

#### Listings

C-UL Listed  
UL 916 Listed  
BTL Listed



Subject to change without notice.