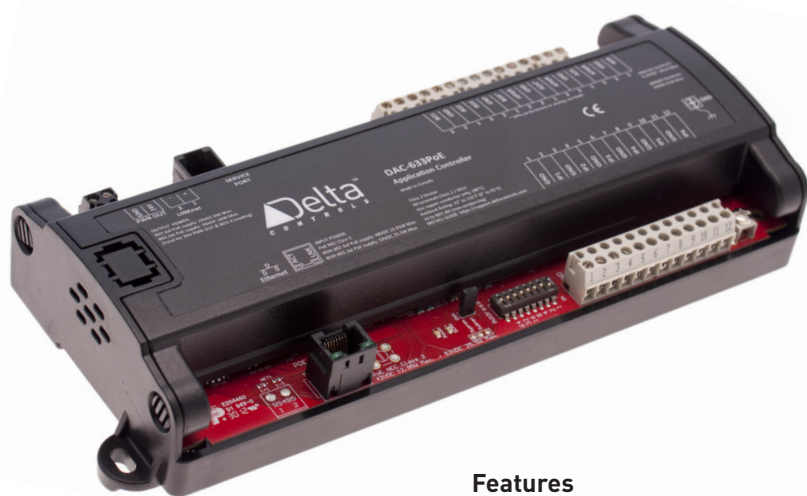


# ▶ Application Controllers

## 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
- ▶ 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

### Specifications

#### BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

#### Inputs

6 Universal Inputs (10 bit), jumper configurable for:  
0-5VDC, >1MΩ loading  
0-10VDC, 20KΩ loading  
10 KΩ Thermistor, 10KΩ to 5VDC  
Dry Contact (using 10K jumper setting)  
4-20mA, 250Ω to Gnd

#### Outputs

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

3 Binary FET Outputs  
24VDC  
Internally powered switching to ground

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

LED status indication of each output

#### Technology

32-bit processor

2 MB (16 megabit) Flash memory

319 KB SRAM memory for database

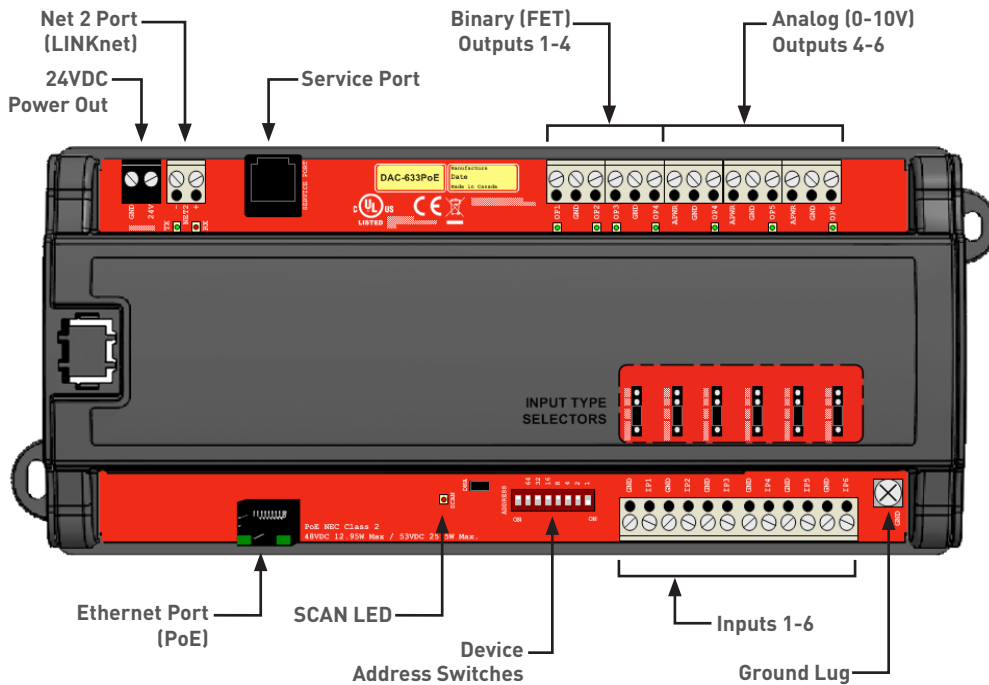
LED indication of CPU and SCAN status

#### Device Addressing

Software Addressed

# Application Controllers

## DAC-633PoE: Board Layout Diagrams



## Specifications (Continued)

### Communications Ports

Main LAN  
Ethernet (10BaseT), BACnet IP and BACnet over Ethernet protocols supported.

SubLAN (NET2)  
RS-485 Port (up to 76800 bps) Delta LINKnet, or Modbus RTU protocols supported.  
(maximum 4 LINKnet devices with no more than 2 DFM devices)

### Connectors

Removable screw-type terminal connectors

### Wiring Class

NEC Class 2 / SELV

### PoE Power In

802.3at PoE: 53VDC, 25.5W max\*

802.3af PoE: 48VDC, 12.95W max\*

\*See installation guide for details on calculating PoE power budget.

### 24VDC Power Out

802.3at PoE supply: 16W max<sup>†</sup>

802.3af PoE supply: 6W max<sup>†</sup>

<sup>†</sup>Max total power available for external field devices powered from 24VDC out terminal and binary outputs 1 – 4.

### Ambient

32° to 131°F (0° to 55°C)

10 - 90% RH (non-condensing)

### Dimensions

10<sup>5</sup>/<sub>16</sub> x 4<sup>1</sup>/<sub>4</sub> x 1<sup>15</sup>/<sub>16</sub> in

(26.2 x 10.7 x 4.9 cm)

0.959 lb. (435g)

### Compliance

CE, FCC

### Listings

C-UL

UL 916

BTL

BACstat is a registered trademark of Delta Controls Inc.

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.

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Subject to change without notice.

## 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 configurable output (0-10VDC analog or 24VDC 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