

## Application Controllers

### DAC-633

#### Description

The DAC-633 is a fully programmable, Native BACnet™ Advanced Application Controller that communicates on an RS-485 LAN using the BACnet MS/TP protocol. The DAC-633 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
- BACnet MS/TP communications
- 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
- Easy to mount housing
- Fully programmable in GCL+
- Application database can be flash loaded over the network
- Controller firmware can be flash loaded over the network
- Supports Modbus capability via flash loading in the field
- Supports flash loading Modbus upgrades via hardware key
- Derived Network Addressing (DNA) for simple integration into a standard network architecture
- Service port

#### 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

3 Analog outputs (0-10v)

Jumper selection for internal or external power on binary outputs

LED status indication of each output

##### Technology

32-bit processor

1 MB (8 megabit) Flash memory

127 KB SRAM memory for database

LED indication of CPU and SCAN status

##### Device Addressing

Set via DIP switch and jumpers, or software setup

##### Communications Ports

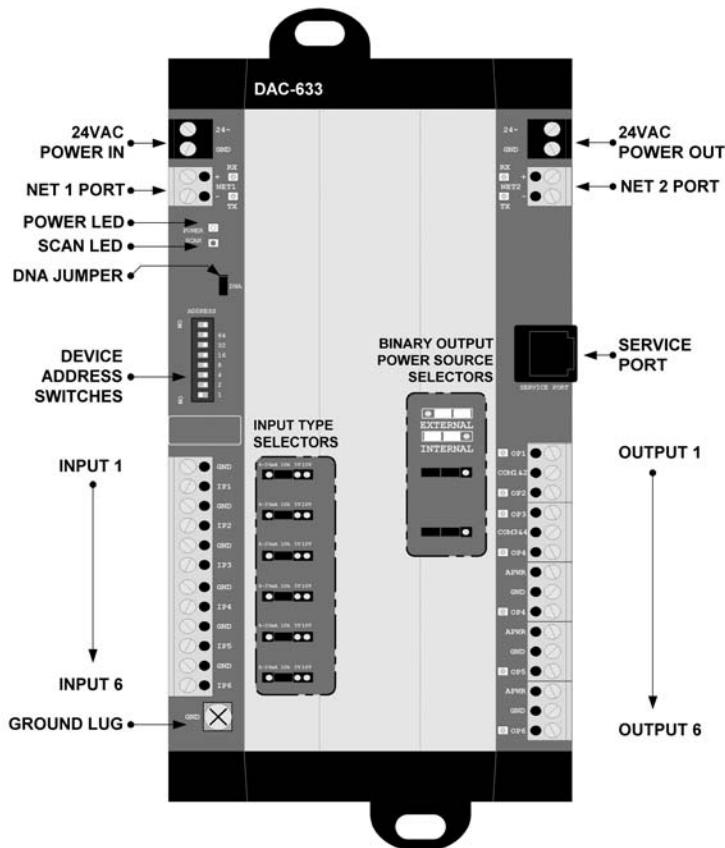
Main LAN (NET1)  
BACnet MS/TP @ 9600, 19200, 38400 or 76800 bps (default) (maximum of 99 devices per BACnet MS/TP segment)

SubLAN (NET2)  
Delta LINKnet @ 76800 bps (maximum 6 devices on LINKnet, with no more than 2 DFM devices)

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### DAC-633: Board Layout Diagram



#### Specifications (Continued)

##### Connectors

Removable screw-type terminal connectors

##### Wiring Class

Class 2

##### Power

24 VAC only

12VA, 48VA with BOs fully-loaded

##### Ambient

32° to 131°F (0° to 55°C)

10 - 90% RH (non-condensing)

##### Dimensions

8 5/8 x 4 x 1 7/8 in. (21.9 x 10.2 x 4.8 cm) with housing

0.80 lb. (360 g) with housing

##### Compliance

CE

FCC

##### Listings

C-UL Listed

UL 916 Listed

BTL Listed

UL 864 Listed (DAC-633-UL864 only)

#### Accessories

RPT-768—Delta Network Repeater for BACnet MS/TP

TRM-768—Delta Network Terminator for BACnet MS/TP

CON-768—Delta Network Converter

#### Ordering

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

DAC-633—6 inputs, 3 AO's, 3 BO's

DAC-633-V2—6 inputs, 3 AO's, 3 BO's (V2\* Firmware)

DAC-633-UL864—6 inputs, 3 AO's, 3 BO's, UL 864 Listed

\*Not all features described in this document are available when this option is selected.