

# ControlSpace® EP40-D 4-input Dante™ Endpoint

**BOSE**

TECHNICAL DATA SHEET

## Product Description

The Bose® ControlSpace® EP40-D 4-input Dante endpoint is the ideal interface for adding mic/line inputs to a Dante-based network audio system. It features four balanced mic/line inputs, each with front-panel indicators showing channel gain/pad and phantom power status for easy troubleshooting. The EP40-D has two network connections to allow Dante daisy-chaining. Dante daisy-chaining further simplifies system infrastructure wiring by allowing multiple endpoints to use a single CAT-5 home run connection to a network switch. Power can also be daisy-chained. The EP40-D is powered by either an external +24VDC supply or any PoE network switch. Mic/line gain and +48VDC phantom power are controllable per channel using ControlSpace Designer™ software.

## Key Features

- Integrated discovery, routing, configuration and control using ControlSpace Designer™ software
- Four balanced mic/line inputs using 3-pin Euroblock connectors
- Eight mic/line gain settings to accommodate any analog input level – gain is individually adjustable per channel via ControlSpace Designer software
- 802.3af compliant PoE powered to work with any compliant PoE network switch, or an external +24VDC supply
- +48VDC Phantom power – software switchable per channel
- ID indicator allows easy identification of which EP40-D is communicating with ControlSpace Designer software
- Dante daisy-chaining allows multiple EP40-Ds to be connected over a single home-run to the Ethernet switch

## Technical Specifications

Audio Inputs	
Input Channels	Four (4) analog, balanced microphone/line level
Connectors	Four (4) 3.81 mm Euroblock connector, 3-pin
Phantom Power	+48VDC, software selectable per input
Gain Settings	-12 / 0 / +3 / +15 / +18 / +30 / +33 / +45 dB, software selectable
Input Impedance	> 1.8 kΩ at any gain setting
Equivalent Input Noise	-115 dBu (+45 dB gain)
Maximum Input Level	+20 dBu (using -12 dB gain setting)
Software Application	
ControlSpace® Designer™ software v4.2 or later	
General	
Digital Conversion	48 kHz / 24-bit
System THD	< 0.01 % at any gain setting, input signal 3 dB below maximum
Frequency Response	20 Hz – 20 kHz, ±1 dB
PoE Class	Class 0 802.3af PoE PD compliant
Certifications	FCC Part 15 Class B, CE (EN 55022 Class A), IEC 60950
Dimensions	1.50" H x 8.32" W x 4.74" D (38 mm x 211 mm x 120 mm)
Operating Temperature	32 °F – 104 °F (0 °C – 40 °C)
Product Code	738676-0010



## Applications

- Hotel ballrooms
- Conference/meeting centers
- Conference rooms
- Sports facilities
- Convention centers
- Religious and worship facilities
- Retrofit applications using existing networking cables

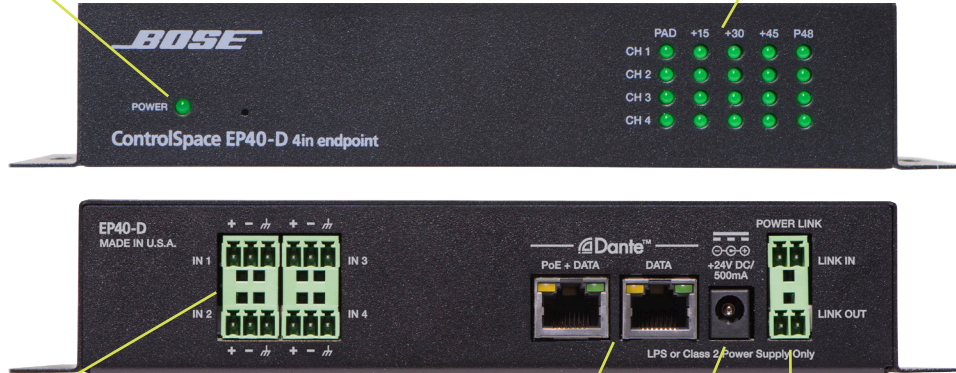
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## Connector Panel

**POWER/ID indicator:** Indicates power when on and blinks when the *Identify* button is pressed in ControlSpace Designer™ software

**Gain and phantom power status indicators:** Shows the gain/pad (-12 dB) setting and phantom power status for each of the four input channels



### Mic/Line inputs (4):

- Balanced microphone/line-level inputs
- Available gains of 0dB, +15dB, +30dB and +45dB (without pad); and -12dB, +3dB, +18dB and +33dB (with pad); software selectable.
- +48VDC phantom power, software selectable

### POWER LINK IN/OUT:

Allows daisy-chaining DC power between multiple units

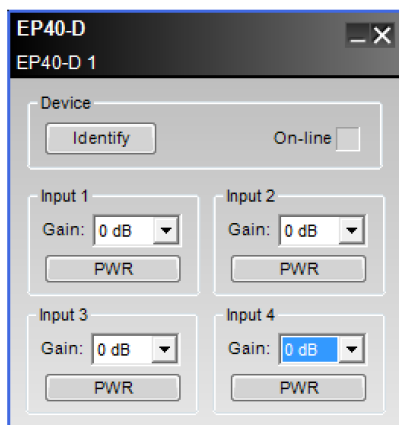
**+24VDC input:** +24VDC @ 500mA, center-positive polarity (External supply not required if used with a PoE Ethernet switch)

### Dante™ / PoE network connector:

100 Mbps Dante Ethernet RJ-45 network connections

- **PoE + DATA** connects to an Ethernet switch (PoE or non-PoE) and also provides the input for daisy-chaining units
- **DATA** provides the output to daisy-chained units

## ControlSpace Designer™ software interface



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