

ControlSpace® ESP-00 General Purpose I/O card II



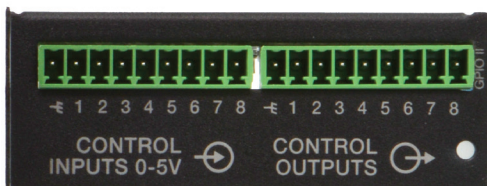
Product Overview

The Bose® GPIO card II for card-frame ControlSpace® engineered sound processors is used to expand the number of standard general purpose input/output ports. This card inserts into the available GPIO slot and augments the pre-installed GPIO card by adding eight additional control inputs and eight additional control outputs. Each input is configurable to allow external control from hardware such as potentiometers (to control gain) and switches/contact closures (to select block states or invoke parameter sets). Outputs can be used to trigger digital equipment or used directly with LEDs and relays.

Technical Specifications

Control Inputs	
Inputs (Control)	Eight (8) analog/digital inputs, 2 kΩ internal pull-up resistor to 5 V
Connectors	One (1) 3.81 mm Euroblock, 9-pin (common ground)
Analog Input Voltage	0 – 3.3 V (maximum 5 V)
Digital Input Voltage	0 – 3.3 V (threshold voltage = 1.6 V)
Control Outputs	
Outputs (Control)	Eight (8) digital outputs
Connectors	One (1) 3.81 mm Euroblock, 9-pin (common ground)
Output Voltage	High: 7.5 V (open circuit), 2.5 V @ 10 mA Low: < 1 V @ 100 mA, push-pull
Output Current	10 mA source, 100 mA sink (24 VDC max external supply voltage)
Software Application	
ControlSpace® Designer™ Software	v4.1 or later
General	
Product Code	638300-0010
Compatible With	ControlSpace ESP-00 II engineered sound processor ControlSpace ESP-00 engineered sound processor ControlSpace ESP-88 engineered sound processor
Box Contents	(1) expansion card, (1) connection cable, (2) Euroblock connectors, (2) cable ties, (1) installation guide
Slot Requirement	One GPIO card slot, two slots per chassis (one pre-installed)

Connector Panel



Key Features

- Doubles the number of input/output GPIO control ports
- Improved design offers higher current capability to drive LEDs and relays
- Compatible with Bose CC-4 room controllers and volume controls

Applications

The GPIO card II brings more input/output ports for use in installations where a higher amount of control connections are required. Using ControlSpace® Designer™ software, functions can easily be assigned to external devices connected to GPIO ports, enabling system designers the ability to better integrate Bose ControlSpace devices with third-party user controls and active components.

Designed for a wide range of applications, including:

- Performing arts venues
- Hotels and conferencing facilities
- Religious and worship facilities
- Health clubs
- Retail and shopping centers
- Sports venues
- Schools and universities

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