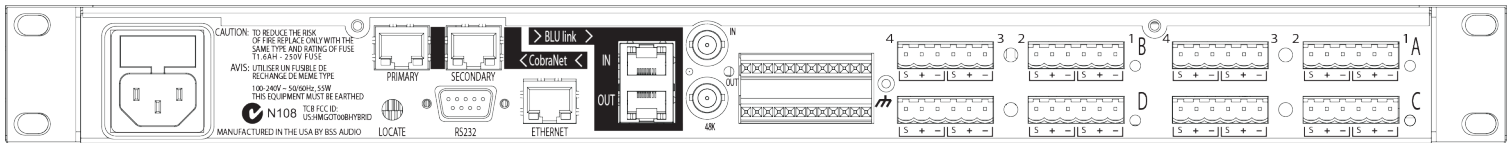
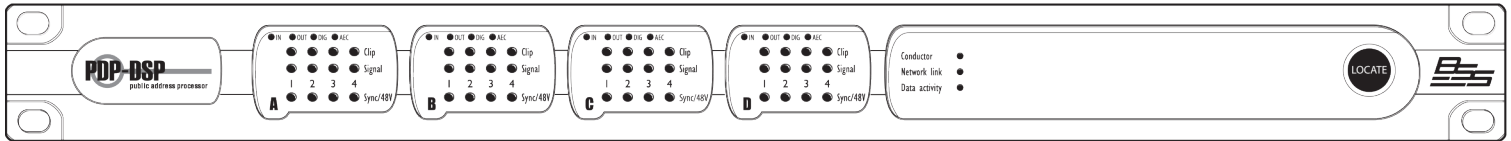


IDX 100 Processor PDP-DSP



OVERVIEW:

The PDP-DSP Public Address Processor offers 8 analog inputs and 8 analog outputs, a pre-configured signal path, CobraNet audio and a high bandwidth, fault tolerant digital audio bus.

This processor features CobraNet audio with primary and secondary ports for fault tolerance. Control is through a separate Ethernet port which allows CobraNet and control networks to be easily separated or mixed depending upon requirements.

The PDP-DSP features a low latency, fault tolerant digital audio bus of 256 channels which uses standard Category 5e cabling allowing a distance of 100m between PDP-DSP Public Address Processor and PDP-BOB Output Expander devices.

Phantom Power, Sync, Signal Present and Clip information per channel is easily accessible, without the requirement for a PC, from clear front panel LED indication. A bi-directional locate function allows devices to be identified both from and within IDX 100 Designer.

12 Control Inputs and 6 Logic Outputs allow the PDP-DSP to be integrated with GPIO compatible devices.

A maximum of 2 PDP-DSP Public Address Processors can be used in an IDX 100 system to provide up to 96 output zones, where each PDP-DSP device provides processing for up to 48 output zones.

KEY FEATURES:

- 8 Analog Inputs (with Phantom Power per Channel)
- 8 Analog Outputs
- Pre-Configured Signal Path
- 256 Channel, Low Latency, Fault Tolerant Digital Audio Bus
- Clear Front Panel LED Indication
- Bi-Directional Locate Functionality
- 12 Control Inputs and 6 Logic Outputs for GPIO Integration
- In IDX 100 System Up to 96 Output Zones Using 2 PDP-DSP Devices



PDP-DSP IDX 100 Processor

TECHNICAL SPECIFICATIONS:

Front Panel Led Indicators:

Per Input: Signal Present, CLIP, SYNC/48V, I/O card type (IN, OUT)

Other: LCD Display, Conductor active, Network Link active, Data Activity

Analog Inputs: 8 electronically balanced on Phoenix Combicon removable screw connectors

Mic/Line Inputs: Nominal gain 0dB, electronically switchable up to +48dB, in +6dB steps

Input Impedance: 3.5k Ω

Maximum Input Level: +20dBu with 0dB input gain, +8dBu with 12dB gain

CMRR: >75dB at 1KHz

Input Noise (E.I.N.): <-128dBu typical with 150 Ω source

Phantom Power: 48V nominal, selectable per input

A/D Latency: 38.7/Fs

Analog Outputs: 8 electronically balanced on Phoenix/Combicon removable screw connectors

Maximum Output Level: +19dBu

Frequency Response: 20Hz-20KHz (+0.5dB/-1dB)

THD: <0.01% 20Hz to 20KHz, +10dBu output

Dynamic Range: 108dB typical, 22Hz-22KHz unweighted

Crosstalk: <-75dB

D/A Latency: 28/Fs

Control Ports: 12 inputs and 6 outputs

Control Input Voltage: 0 to 4.5v

Control Input Impedance: 4.7k Ω to +5V (2-wire mode), >1M Ω (3-wire mode)

Logic Output Voltage: 0 or +5V unloaded

Logic Output Impedance: 440 Ω s

Logic Output Current: 10mA source, 60mA sink

Watchdog Output: Phoenix/Combicon connector for failsafe control

Opto Output Current: 14mA maximum

Withstanding Voltage: 80V maximum (Off)

Series Impedance: 220 Ω (isolated)

Control Network:

Connectors: RJ45 Ethernet connector

Maximum Cable Length: 100m/300ft on Category 5 cable between device and Ethernet switch

Digital Audio Bus:

Connectors: 2 x RJ45 Ethernet connectors

Maximum Cable Length: 100m/300ft on Category 5e cable between devices

Maximum Number of Nodes: 60

Latency Per Node: 4(+/-1)Fs

CobraNet™ Audio Network:

Connectors: 2 x RJ45 connectors

Maximum Cable Length: 100m/300ft on Category 5 cable between device and Ethernet switch

Power and Dimensions:

Mains Voltage: 100-240V AC, 50/60Hz

Power Consumption: <35VA

BTU Rating: <188 BTU/hr

Operating Temperature Range: 5 (41) to 35 (95) degrees C (degrees F)

Dimensions (H(U) x W x D): 1.75" (1U) x 19" x 12.5" (45mm x 483mm x 318mm)

Weight: 9 lbs / 4.1 kgs (estimated)