The PD-DAP is a modular SD digital audio processor. It is used in 1RU or 2RU PANDORA platform. Dynamic audio processing including compression, limit, expansion, enhancement and gain control is available for audio signals associated with the SD-SDI inputs.

The module supports 1 program input and provides 2 program outputs. Audio signals associated with the program input can dynamically and fully controlled. By-pass protection is supported on the program input so that the program can be output without any interruption. Auto cable equalizing is up to 492 ft (150 m).

An RJ-45 connector is provided for control of dedicated control panel remotely. Audio signals associated in program input can be monitored. A programmable GPI interface is provided to trigger bypass protection. Additionally, control of PD-MASTER application is supported.

SPECIFICATIONS

Specifications are subject to change without notice.

DIGITAL VIDEO INPUT

DIGITAL VIDEO INI OT	
Signal Format	SMPTE 259M-C, 270 Mbps
	525/625 component
Signal Standards	SMPTE 272M
Connector	BNC (×1)
Impedance	75 Ω
Return Loss	18 dB @ 270 MHz
Cable EQ	<492 ft (150 m)
	Belden 1694A cable or equivalen

DIGITAL VIDEO OUTPUT

Signal Format	.SMPTE 259M-C, 270 Mbps
	525/625 component
Connector	.BNC (×2)
Impedance	.75 Ω
Return Loss	.18 dB @ 270 MHz
Amplitude	.800 mVp-p ±10%
Rise/Fall Time	.700 ps, 20%~80% of amplitude
Overshoot	.<10% of amplitude
Jitter	.<0.2UI

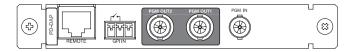
DIGITAL AUDIO OUTPUT

Signal Format	.AES3
Connector	.RJ-45
Impedance	110 Ω
Level	.5 Vp-p ±10%

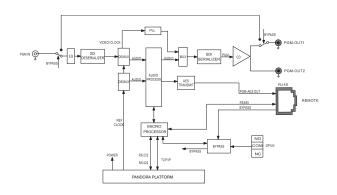
KEY FEATURES AND BENEFITS

- Extracts RMS characteristics of audio signals
- Provides dynamic control of audio signals associated in SD inputs, including compression, limit, expansion, enhancement and gain adjustment
- Auto cable equalizing up to 492 ft (150 m)
- By-pass protection
- Supports control of remote control panel
- Supports GPI input

BACK MODULE



BLOCK DIAGRAM



PERFORMANCE

I LI II OI III II II I	
Gain Adjustment Range	20 dB ~ +20 dB
Compress Ratio	1:1 ~ ∞:1
Compress Threshold	44 dBFS ~ -4dBFS
Expansion Threshold	60 dBFS ~ -20 dBFS
Attack Time	0.1 ms ~ 500 ms
	Compression & Expansion
Release Time	20 ms ~ 5 s, Compression & Expansion
Noise Threshold	70 dBFS ~ -44 dBFS
Enhancement Threshold	44 dBFS ~ -10 dBFS
ELECTRICAL	
Power Consumption	5 W

Power Consumption	5 W
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ENVIRONMENTAL

Operating Temperature	32° ~ 104° F (0° ~ 40° C)
Relative Humidity	10% ~ 90%