16 In 16 out DSP Audio Processor

Description:

DSP-1616N2+ uses the industry-leading chip ADI DSP SHARC 21489, and the highest operating frequency can reach 450M Hz.
The input and output modules of DSP can be customized according to the site conditions. At the same time, it has independent AFC/ AEC/ ANS/ AGC/ gain sharing automatic mixing, threshold automatic mixing and other processing modules. Meet the needs of audio processors and transmission in various places, such as conference rooms, multi-function halls, conference centers, auditoriums, administrative centers, etc.

Features:

- With industry-leading chip ADI SHARC 21489 , the working frequency can reach 450M Hz;
- Customizing operation software makes the configuration more flexible, and it can control Different DSP.
- Provides operation interface for customers to realize centralized control of multiple devices. And it can control third-party' s equipment through DUP RS232, RS485;
- AFC (feedback suppression), AEC (echo cancellation), ANS (noise suppression), ANC (noise gain compensation), AGC (automatic gain), gain sharing, threshold automatic mixing, dodger and other processing modules;
- Each channel has independent adaptive feedback suppression, automatically find the feedback point, and automatically suppress;
- Full-featured matrix mixing, the input mixing level can be adjusted;
- There are 16 presets, each preset works independently;
- 8 GPIOs can independently configure with input or output, and they can be used as independent ADC when configuring with input;
- Support channel copy, LINK and group functions;
- Support RS232&UDP central control, UDP port can be set freely, and you can check the control software code;
- 2 types of wall panels are optional, and they are available to software programming.

SPECIFICATIONS	DSP-1616N2+
Input Channels(analog)	16
Output Channels(analog)	16
Input	5/ 8/ 12 section PEQ (optional), AFC/AEC/ANS/AGC/Auto Mixer
Output	Frequency divider: 5, 8, 12 segment PEQ (optional); Delayer; Limiter
Input gain	0/10/20/30/40/43 dB
THD+N	0.003% @4dBu
Frequency response	20~20kHz ±0.2dB
Maximum level	+24dBu
Phantom power	+48V
Dynamic range (analog channel)	113dB
Dynamic range (Dante channel)	115dB
Self-Noise (A-Weighting-analog)	-89dBu
Self-Noise (A-Weighting-Dante)	-91dBu
Common mode rejection ratio @60Hz	80dB
Channel isolation @1kHz	108dB
Input impedance (balanced connection)	9.4KΩ
Output impedance (balanced connection)	102Ω
System delay	<6ms
Power supply	AC110~240V,50Hz/60Hz
Dimension	482 x 260 x 45mm
Weight	3kg