kasper

KSP-A48.2

Digital Signal Processor

The Kasper KSP-A48.2 Digital Signal Processor is a powerful and precision-engineered audio processing solution designed for advanced sound system control and optimization. Equipped with high-performance dual DSP architecture, it delivers exceptional processing speed, accuracy, and flexibility, enabling detailed tuning and customization for professional audio environments.

SIGNAL PROCESSING | BIT DEPTH - 32\192 KHZ | INPUT 3-4 | OUTPUT 6-8 | DSP FIR FILTERS

Size:	1U
Input :	4
Total harmonic distortion (20Hz-20kHz@+4dBu) :	<0.003%
Frequency response (20Hz-20kHz@+4dBu :	Q+0/-0.3dB
Signal-to-noise ratio :	118dB A-weighted
Noise floor :	<-90dBu
Dynamic range (20Hz-20kHz, 0dB) :	>116 dB
Maximum gain (input to output) :	48dB
Maximum delay (input to output) :	750ms
Channel separation (between channels@1kHz) :	>80dB
Common mode rejection ratio :	60Hz>100dB@+20dBu
Input impedance (balanced/unbalanced) :	Bal: 20K / Unbal: 10K
Output :	8
Output impedance (balanced/un balanced) :	Bal: 100ohm / Unbal: 50ohm
Input gain range (adjustable) :	-80dB+12dB
Output gain range (adjustable) :	-80dB~+12dB
A/D chip :	AK5552
A/D sampling rate :	768kHz
A/D converter bit width :	32bit
D/A chip :	AD1955
D/A sampling rate :	192kHz
D/A converter bit width :	24bit
DSP chip :	ADSP-21571
DSP main frequency :	500Mhz
DSP bit width :	32/40/64-bit floating point dual-core SHARC+ARMCortex-A5TM core
Power consumption :	220V 22 watts

KEY FEATURES:

- Advanced digital signal processing
- High dynamic range & low noise
- Precise audio control and tuning
- Multi-input and multi-output configuration
- Wide frequency response

IDEAL FOR:

- Auditoriums
- Live sound & events
- Houses of worship
- Recording studios
- Commercial installations