



Digital Signal Processor

Stoltzen Typhoon X1616 DSP

Analog 16x16 | USB

Product number: TYP-X1616

Product Description

Stoltzen's Typhoon series is a range of versatile and powerful DSPs designed for professional audio applications such as House of Worship, Bars and Restaurants, Conferencing, and Education markets. With the FLOW software as the controller, users can easily configure and manage multiple units to meet specific needs and requirements.

The Typhoon series offers a wide range of audio processing modules, including Adaptive Feedback Control, Acoustic Echo Cancellation, Automatic Noise Suppression, Automatic Gain Control, and AutoMix, ensuring optimal audio quality and intelligibility. Each input and output supports various signal processing options, such as parametric equalization, signal generation, compression, expansion, delay, and limiting, enabling precise control over audio signals.

The Typhoon series is designed to provide high-performance and cost-effective functionality, meeting the needs of audio professionals looking for a flexible and powerful DSP solution.

Main Specifications

Input Port - Analog Audio	16
Output Port - Analog Audio	16
Ethernet Port (RJ-45)	1x TCP/IP
USB Port (Type-A)	1 USB Audio
Serial Port (Terminal Block)	1x RS-232 1x RS-485
GPI/O Port (Terminal Block)	8x GPI/O



Extended Specifications

Analog Background Noise	-89 dBu (A-weighted)
Frequency Response	±0.3dB
SNR	110 dB
THD+N	<-94dB @4dBu
Channel Isolation	108 dB (1 kHz)
Common Mode Rejection Ratio @60Hz	80 dB
Analog Input Gain	0db - 48dB (increments of 3db)
Analog Input Level	+24 dBu
Input Impedance	5.4KΩ
Phantom Power	+48V / 10mA max
Input dynamic range	110dB
Analog Output Level	+24 dBu
Output Impedance	600Ω
Output dynamic range	112dB
ADSP	ADI SHARC 21489
Audio Format	48K/24bit
System Latency	<3ms
Expander	✓
Compressor	✓
Parametric EQ	5, 8 & 12 band
Graphic EQ	10, 15 & 31 band
Gate Mixer	✓
Ducker	✓
High and Low Pass Filter	✓
Delay	✓
Limiter	✓
Acoustic Echo Cancellation (AEC)	1
Adaptive Feedback Control (AFC)	✓
Automatic Noise Suppression (ANS)	✓
Automatic Gain Control (AGC)	✓
Ambient Noise Compensation (ANC)	✓



AutoMix (AM)	✓
Voice Activated Camera Control	✓
Operating Temperature	+32 to +104 °F (0 to +40 °C)
EAN	7072262009858
Humidity	10% to 90% RH (non-condensing)
Certifications	CE, RoHS

