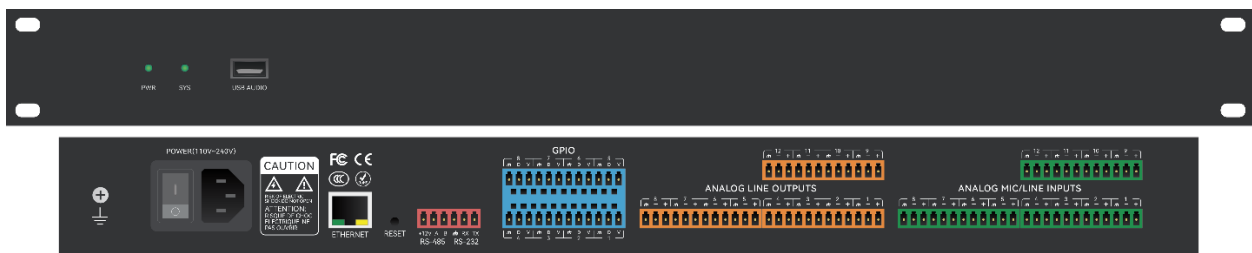


TRINNOX SERIES

Digital Signal Processor – T1212



Overview:

- The OPAQUA TRINNOX T-1212 is a versatile digital signal processor based on A-DSP Architecture with 40-bits floating point, capacity up to 400MIPS, 1600MFLOPS, with fixed 12 analog inputs and 12 analog outputs, and in-built USB audio channel, which can process both analog and digital signals.
- The T-1212 has great advantages on its core Algorithms which include AEC(Echo Cancellation), AFC(Feedback Cancellation), ANS(Noise Suppresion), AGC(Automatic Gain Control). The Echo Cancellation algorithm can be applied to signals from local analog inputs or remote digital channel, while Automatic Gain Control ensures that microphone levels remain at an optimum level, Noise Suppression removes steady state noise, and Feedback Suppression enables more flexible microphone, loudspeaker placements and speech reinforcement, delivering audio where you want it. The signal processing is fully customizable via DSP control software.
- Multiple DSP devices can be configured and programmed in one PC, which provides the building blocks of the perfectly tailored system solution. USB audio channel allows the processor to take full advantage of today’s most sophisticated conferencing solutions, like MS Teams, Google Meet etc.
- The T-1212 is controllable via an Ethernet port, provides 8 GPIO multi-function ports.
- Support Ducker, Camera tracking function.
- Internal universal power, 1U rack size.

Features:

- 12 Analog Inputs (48V Phantom Power Option)
- 12 Analog Outputs
- In-built USB Audio Channel
- Algorithms: AEC, AFS, ANS, AGC
- Customizable signal processing
- RS232/ RS485 serial port
- 8 GPIO port
- System configuration and control via Ethernet
- 16 Presets for recall
- Internal universal power supply
- Rack Mountable

Technical Specifications:

Analog Inputs	12
Analog Outputs	12
Latency	< 3 ms
USB Audio Channel	Yes
Input Gain Range (3dB Steps)	0~48dB
Maximum Input Level	+18 dBu
Maximum Output Level	+18 dBu
Frequency Response	±0.3 dBu (20 ~ 20K Hz)
THD+N	<0.003% (1Khz, +4dBu)
Input dynamic range	110dB
Output dynamic range	112dB
Sampling Rate	48KHz
Audio Format	24-bit
Phantom Power	+48V (10mA Max)
Input Impedance (Balanced)	5.4K ohms
Output Impedance (Balanced)	600 ohms
Power Consumption	35 W
Temperature	0~40 °C
Humidity	10% to 90% RH (non-condensing)
Weight	3Kgs
Size	482x260x45mm