



## Features

- i8800: 8 analog audio inputs and 8 analog audio outputs (Line/Mic inputs)
- i1616: 16 analog audio inputs and 16 analog audio outputs (Line/Mic inputs)
- Optional Dante 4 x 4 network modules are available
- Each microphone input has nine adjustable sensitivity levels
- 32-bit DSP
- 24-bit 48kHz AD/DA conversion
- System latency less than 1ms
- Auto mix function
- AFC active feedback suppression
- AFC adaptive active noise cancellation
- AEC adaptive acoustic echo cancellation
- RS232/485 interface,
- GPIO extended control interface
- Support TCP/IP multiple machine centralized management and debugging, configuration

## Description

PHONIC's i series of digital matrix processors provide high-quality audio performance even under the most demanding conditions. The entire series was designed with contractors in mind, from the versatile phoenix inputs to the short learning curve of the PHONIC TCP/IP control software. Each system includes a variety of signal processors built right into the internal DSP, such as AFC active feedback suppression, ANC adaptive active noise cancellation, and AEC adaptive acoustic echo cancellation, as well as powerful multi-band graphic and parametric EQs, versatile variable-gain amplifiers, and nine adjustable mic input sensitivity levels, among many other features. PHONIC engineers created powerful algorithms that consistently produce high-quality signal processing, backed by an amazing 32-bit floating/fixed point processor, making any of the DMP series invaluable to any installation.

# i SERIES

## DIGITAL MATRIX PROCESSORS

### Dimensions

i8800 | i1616



1. DSP MODULE	
Processor:	32-bit floating/fixed-point 300MHz DSP
System delay:	< 1ms
AD/DA:	24-bit 48kHz
2. ANALOG AUDIO INPUTS AND OUTPUTS	
Inputs:	8 balanced Mic/Line for i8800, 16 balanced Mic/Line for i1616.
Input interface:	3.81 mm Phoenix, 12-pin
Input impedance:	5.7K $\Omega$
Max input level:	13 dBu/Line, -7 dBu/Mic
Phantom power:	+48 VDC, 6.5mA, for each channel
Outputs:	8 for i8800, and 16 for i1616
Output impedance:	150 $\Omega$
Dante Network Module:	4 x 4 (optional)
3. AUDIO PERFORMANCE SPECIFICATIONS	
Frequency response:	20 Hz-20 kHz (+-0.5dB) / Line; 20 Hz-20 kHz (+-1.5dB) / Mic, 20 dB Gain
THD+N:	-90 dB(@12dBu,1 kHz, A-weighted)/Line; -86 dB(@-7dBu,1 kHz, A-weighted)/Mic, 20 dB Gain
SNR:	105 dB(@12dBu,1 kHz, A-weighted)/Line; 95 dB(@-7dBu,1 kHz, A-weighted)/Mic, 20 dB Gain
4. COMMUNICATION PORTS AND INDICATORS	
USB:	Type B
RS232/RS485	Phoenix
TCP/IP network:	RJ-45
Indicator light:	Power, Link, +48V, Input and output signal.
5. ELECTRICAL AND PHYSICAL	
Power Supply:	AC100V - 240V 50/60 Hz
Operating temperature:	-20°C - 80°C
Product dimension:	483mm x 265mm x 44mm
Weight:	Net weight 3.5kg; Gross weight 4.25kg