

MP-NL1208D

Digital Sound Processor • Professional DSP Platform



Product Overview

The MP-NL1208D is a professional digital sound processor designed for flexible audio routing, processing and control in conference, commercial AV and Dante-enabled installations. The supplied manual describes computer-based DSP configuration, analog audio processing, GPIO/serial control and Dante network audio integration.

KEY FEATURES

- SHARC-based floating-point DSP processing
- 48 kHz / 24-bit audio processing
- 48 V phantom power for microphone inputs
- Flexible DSP modules including EQ, compressor/limiter, feedback suppression, noise gate, ducking, delay and matrix routing
- AutoMixer support for multi-microphone conference applications
- USB audio interface for recording/playback functions

CONNECTIVITY & CONTROL

- Ethernet network control and monitoring
- RS232 + RS485 external control
- Dante network audio interface
- GPIO: 8 logic outputs with 4 pairs of common ground pins
- Analog input and output interfaces
- DSP Controller software for configuration, presets and parameter control

Parameter	Specification
DSP Processor	ADI SHARC 21489 ×2 (manual reference configuration)
Sampling Rate / Bit Depth	48 kHz / 24-bit
Input Gain	0 / 3 / 6 / 9 / 12 / 15 / 18 / 21 / 24 / 27 / 30 / 33 / 36 / 39 / 42 / 45 / 48 dBu
Phantom Power	48 V
Frequency Response	20 Hz – 20 kHz, ±0.3 dB

Parameter	Specification
Maximum Level	+18 dBu
THD + Noise	0.003% @ 4 dBu
Dynamic Range	113 dB
Background Noise (A-weighted)	-91 dB
Common Mode Rejection Ratio	80 dB @ 60 Hz
Channel Isolation	108 dB @ 1 kHz
Input Impedance	5.4 kΩ (balanced connection)
Output Impedance	600 Ω (balanced connection)
System Delay	< 3 ms
Power	AC 110–240 V, 50/60 Hz
Maximum Power Consumption	< 40 W
Dimensions	482 × 260 × 45 mm
Rack Space	1U
Shipping Weight	3 kg / 6.6 lb

Installation note: The manual recommends 1U rack space, at least 3 in (7.6 cm) additional rear-panel connection depth, and at least 2 in (5.08 cm) ventilation clearance on both sides. The specification table above follows the values stated in the supplied manual; the manual explicitly presents the electrical specifications using a 16×16 configuration example including Dante.