

MP-RN1208D

Digital Sound Processor



Product Overview

The **MP-RN1208D** is a professional digital audio DSP platform designed for conference rooms, meeting spaces and installed AV systems. It supports flexible audio processing, matrix routing, network control and integration with Dante-based audio networks for scalable system designs.

Key Features

- Professional digital signal processing platform based on ADI SHARC DSP architecture.
- 48 kHz / 24-bit audio processing.
- 48 V phantom power support for compatible condenser microphones.
- Maximum input/output level up to +18 dBu.
- System delay below 3 ms.
- AEC and noise suppression processing modules.
- Flexible matrix routing with high-pass and low-pass filtering.
- Ethernet network control with RS232 / RS485 control support.
- Dante network interface for networked audio integration.
- GPIO interface for external control and system integration.

Technical Specifications

Parameter	Specification
Model / Module No.	MP-RN1208D
DSP Architecture	ADI SHARC 21489 × 2
Audio Resolution	48 kHz / 24-bit
Phantom Power	48 V
Maximum Level	+18 dBu
System Delay	< 3 ms
Power Supply	AC 110–240 V, 50/60 Hz
Maximum Power Consumption	< 40 W
Dimensions	482 × 260 × 45 mm
Rack Size	1U

Connectivity & System Integration

Interface	Application
Analog Inputs	Microphones and local audio sources such as media players / DVD sources
Analog Outputs	Power amplifiers and active speakers
Dante Network	Networked microphones and Dante-enabled audio devices
Ethernet	Network control and configuration
RS232 / RS485	External control / integration
GPIO	External triggers and control integration

Typical Applications

- Conference and boardroom audio systems
- Meeting and collaboration spaces
- Installed AV and commercial audio systems
- Dante-enabled network audio environments
- Multi-zone amplification and loudspeaker distribution
- Recording / streaming integration

System Application

A typical installation can combine microphones and local audio sources with the DSP, route processed signals to power amplifiers / active speakers, and use Ethernet or RS232/RS485 for control. Dante networking can be used to connect compatible network audio devices on the same LAN.

Documentation note: Technical values above are taken from the supplied Milestone Pro operating manual. The manual's specification section presents a 16×16 example including Dante; therefore, channel quantities beyond what is explicitly documented are not independently assumed here.