

# DNM SERIES

## Programmable digital audio matrix processors

**DNM-88 • DNM-88D • DNM-1616 • DNM-1616D**



8 inputs | 8 analog outputs

DNM-88

✶ Dante<sup>®</sup>  
AES67



8x8 analog I/O + 8x8 Dante™ I/O

DNM-88D



16 inputs | 16 analog outputs

DNM-1616

✶ Dante<sup>®</sup>  
AES67



16x16 analog I/O + 16x16 Dante™ I/O

DNM-1616D

**AEC**

**AFC**

**ANS**

**AGC**

**ANC**

**AM**

**Ducker**

### FEATURES

- DSP processing : 400 MIPS, 1,6 GFLOPS.
- Sampling rate : 48 kHz,  $\pm 100$  ppm.
- THD+N : <-94dB @4dBu.
- Input dynamic range: 110dB.
- Output dynamic range: 112dB.
- The processing modules are configurable and freely interchangeable as required.
- 8 units available for in-line operation simultaneous.
- Built-in USB sound card with one input and one output, supporting music playback, recording and soft video conferencing.
- For example: ZOOM, Teams, Tencent meeting, etc.
- Bus-based ACS, waiting time : 512 ms, convergence rate: 60 dB/S, echo cancellation amplitude: 60 dB.
- AFC (feedback suppression) for independent channels with trap-type algorithm, amplitude of sound transmission gain improvement: 10 dB.
- Noise suppression (ANS), improved ratio S/N of 18 dB.
- Priorities (Ducker).
- Noise gain compensator (ANC).
- Automatic gain sharing mixer (AMC), Automatic gate mixer (Gate Mixer).
- 12-band parametric EQ with 5 filter options.
- Parametric, Lowshelf, Highshelf, Lowpass, Highpass.
- Customizable interface for the end user, up to 30 units with the same interface management; support for camera tracking.
- With 8 GPIO channels.
- With centralized control function, support for : RS232, RS485, UDP three kinds of control mode.



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**MAJORCOM:**

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### TECHNICAL CHARACTERISTICS

Model	DNM-88	DNM-88D	DNM-1616	DNM-1616D
Processor	ADI SHARC 21489 @450 MHz SIMD	ADI SHARC 21489 @450 MHz SIMD x2	DI SHARC 21489 @450 MHz SIMD	ADI SHARC 21489 @450 MHz SIMD x2
Sampling rate/quantification bits	48K/24bit			
Number of analog input and output channels	8x8	8x8	16x16	16x16
Number of Dante input and output channels		8x8		16x16
Input gain	0/3/6/9/12/15/18/21/24/27/30 33/36/39/42/45/48 dBu			
Phantom power supply	+48V/10mA max			
Frequency response (20 ~ 20kHz)	±0.3dB			
Maximum level	+18dBu			
THD+N	<-94dB @4dBu			
Input dynamic range	110dB			
Output dynamic range	112dB			
Channel isolation at 1kHz	108dB			
Input impedance (balanced connection)	5.4KΩ			
Output impedance (balanced connection)	600Ω			
System delay	<3ms			
Power supply	AC110~240V, 50Hz/60Hz			
Dimensions (W x D x H)	482x260x45mm			
Weight with packaging	4 KG			
COMPATIBLE DEVICES AND ACCESSORIES				
LM-W	Programmable IP/PoE wall control panel with custom editing control function, supporting up to 32 control functions : <ul style="list-style-type: none"><li>• Gain control</li><li>• Mute</li><li>• Presets</li><li>• Matrixing</li><li>• This wall control panel is ideally positioned and assigned to a zone in order to control the volume and the choice of sources remotely</li><li>• Built-in or surface-mounted</li></ul>			
RM-8	The RM-8 is a 8 zones remote microphone : <ul style="list-style-type: none"><li>• Line level balanced audio output</li><li>• Power supply +12VDC</li><li>• RS-485 communication</li></ul>			
W-TAB10	W-TAB10 is a TFT touch screen compatible with all DNM products. It includes a 10" capacitive touch screen (user control panel). Each unit can be configured to operate as a control panel for one or more zones. It allows to control the volume, selection of the sound source, launch Presets, communication via TCP/UDP with external devices, etc.			

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SOFTWARE				
MAJORCOM DNM	<p>The DNM software is a complete Windows-based application that configures and controls DNM matrices. Systems can be designed to perfectly match specifications and comply with changing or evolving needs and requirements. All classes of audio processing modules for signal routing and shaping are provided.</p> <p>DNM software offers a revolutionary way of thinking about DSP software. This software is designed by audio professionals for audio professionals. It uses an interface that will be very intuitive, even for the most novice integrators, while being extremely powerful in its capabilities.</p> <ul style="list-style-type: none"><li>• Intuitive and user-friendly interface</li><li>• Automatic discovery of devices</li><li>• Parametric/graphic EQ, dynamics processors and automatic gain control</li><li>• Acoustic echo suppression</li><li>• Dynamic feedback suppression</li><li>• USB sound card for playback and recording</li><li>• Signal generator per channel</li><li>• And much more</li></ul>			
Requirements for the installation of the software	<p>A Windows PC with :</p> <ul style="list-style-type: none"><li>• An Intel i5 or higher processor</li><li>• 8 GB of memory or more</li><li>• 1 GB of free storage space</li><li>• Windows 7 or higher</li><li>• Minimum resolution of 1920 x 1080</li><li>• Network port (Ethernet)</li></ul>			
CUSTOMIZABLE GUI CONTROL (Graphical User Interface)	<p>DNMs support a customizable graphical interface that can be built to facilitate remote control of general elements such as volume, mute, presets, matrixing, and other external control commands. Supports Android and Windows control options with or without wires.</p>			

### FRONT FACE



DNM-88

- 1 USB audio for playback and recording (see manual)
- 2 Screen
- 3 Status light
- 4 Power indicator

Non-contractual design. Design may differ without notice.

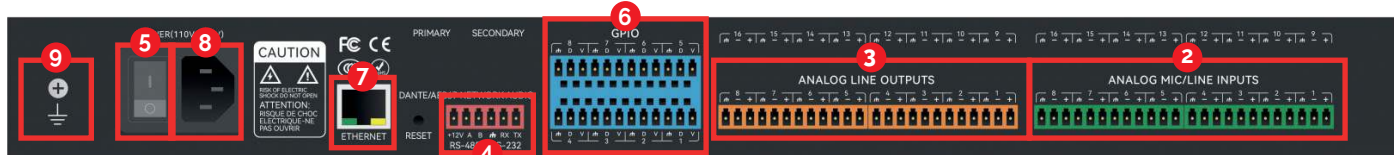
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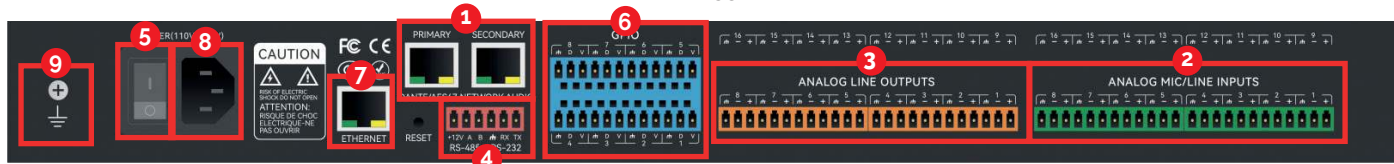
DNM-88 · DNM-88D · DNM-1616 · DNM-1616D

### REAR FACES

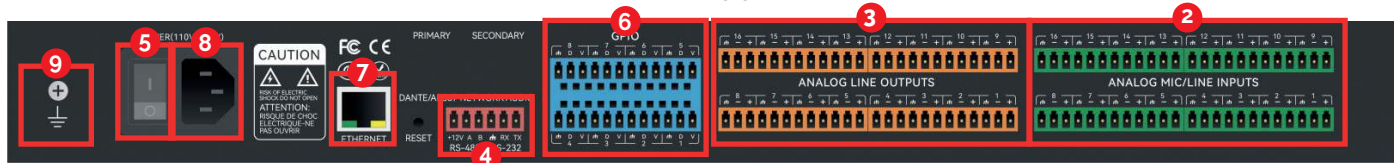
DNM-88



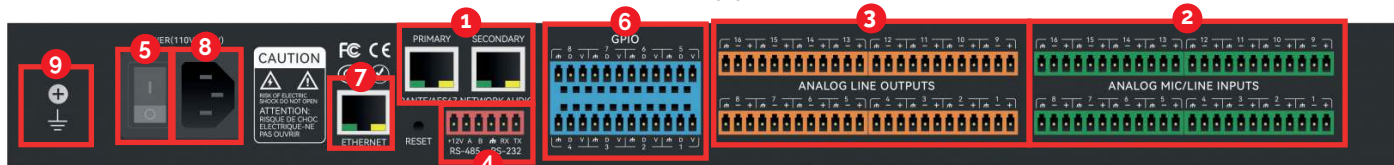
DNM-88D



DNM-1616



DNM-1616D



- 1 Dante Primary and secondary (according to model)
- 2 Analog audio inputs (number depending on model)
- 3 Analog audio outputs (number depending on model)
- 4 Serial communication : RS-232 and RS-485
- 5 On/Off switch
- 6 GPIO connector
- 7 Ethernet connector
- 8 230VAC power supply
- 9 Grounding lug

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Specifications are subject to change without notice. 04/2024