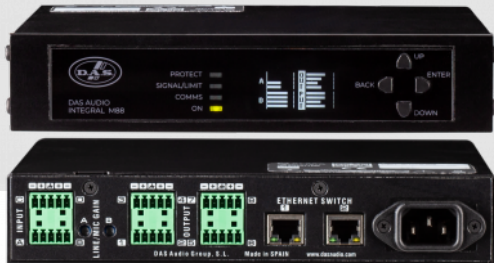


# INTEGRAL series



## INTEGRAL-M88



### DESCRIPTION

INTEGRAL-M88 is a half rack mount 1U size installation matrix with 4 analog input channels and eight analog output channels. Besides the analog audio inputs and outputs, a DANTE digital audio 4x4 chipset is included by default with the units. Control, configuration and management of the devices shall be done via ALMA software over IP or using Open Sound Control (OSC) protocol.

Priority capabilities, full matrix and routing options make this unit essential as the "brain" of any type of installation. The internal memory resources allow to store more than 100 "global presets" and more than 200 "output channel presets" (speaker presets). A bank of output channel presets with specific processing parameters for all DAS Audio speakers is included allowing the users to configure each channel independently. For instance, it would be possible to recall for output 1 the preset of Q-23T, for output 2 the preset of Arco-4T, for output 3 the preset of Q-10 etc.

The unit includes an OLED display (1.54") with control knobs for intuitive and easy navigation as well meters to monitor signal levels. Basic parameters can be accessible via front panel control knobs; input and output levels, global preset recall, output channel preset recall, mute, source selection, link manager functions, priority enabling etc.

Two of the analogue inputs can be switched to microphone with 12V Phantom power if needed.

The unit also Integrates an Ethernet Switch for daisy-chain connections. No external switch is needed.

WiFi and Bluetooth are available for direct wireless operation.

### KEY FEATURES

- 8 CH Matrix with high-performance integrated DSP
- 4 independent analog inputs
- 2 inputs with selectable MIC/Line option and phantom
- 8 Analog output channels
- 4 x 4 CH DANTE digital audio
- ALMA management control and monitoring
- Priority assignment
- Input and output flexible routing

### APPLICATIONS

- Retail Stores
- Bars, clubs and restaurants
- Fitness Centers, hotels, schools

### SPECIFICATIONS

#### Electronics and Audio

Amplifier Output Circuitry	Class D
Frequency Response	20 Hz-30 kHz (+0 -0.5 dB)
Input Sensitivity	4 dBu
Max Input Level	18 dBu
Voltage gain	30.4 dB
Controls	Power On/Off, Navigation Knobs
Display	OLED 1.54"
Cooling	Side-Right-to-Left
Amplifier Protections	Short Circuit, DC Output, Temperature, Over/Under Voltage
LED Indicators	On, Comms, Signal, Protect

#### Connectors

Analog Audio Input Connectors	Euroblock 5mm
Analog Audio Output Connectors	Euroblock 5mm
DANTE Digital In/Out Connectors	2 x RJ45 Fast Ethernet

#### Power

AC Input Connector	IEC 15A
Power Supply	Universal Mains Switch Mode
Operating Range	90 - 250 VAC

#### DSP

Analog Input Channels	4
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Analog Output Channels	8
DANTE Input Channels	4
DANTE Output Channels	4
AD Converters	24 Bit @ 48 kHz 125 dBA Dynamic Range
DA Converters	24 Bit @ 48 kHz 125 dBA Dynamic Range
Internal Precision	32 Bit Floating Point
Latency	1 ms
Delay	120 ms per output
Equalizer	Bell, Lo/Hi-Shelving, Hos
Crossover	Linkwitz-Realy, Butterworth
High and Low Pass Filters	Up to 48 dB/oct
Limiters	RMS, Peak

## ORDERING INFORMATION

Model	Description	P/N
<b>System</b>		
INTEGRAL-M88		10721170

## DIMENSIONS

