

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

| | |
|--------------------|--------------------------------|
| Frequency Response | 20 Hz-30 kHz (+0 -0.5 dB) |
| Max Input Level | +22 dBu |
| Max. Output Level | +22 dBu |
| Controls | Power On/Off, Navigation Knobs |
| Phantom Power | + 12V DC |
| Sampling Rate | 48 kHz |
| Display | OLED 1.54" |
| Cooling | Side-Right-to-Left |
| LED Indicators | On, Comms, Signal, Protect |

Connectors

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|---------------------------------|------------------------|
| 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 |
| 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 |

Dimensions-Weight

| | |
|--------------------------|---|
| Dimensions (H x W x D) | 380 x 360 x 48 mm 14,9 x 14,2 x 1,9 in |
| Net Weight | 6,2 kg (13,7 lb) |

Shipping

| | |
|---------------------------------|---|
| Carton Dimensions (H x W x D) | 440 x 400 x 60 mm 17,3 x 15,7 x 2,4 in |
| Shipping Weight | 7,5 kg (16,5 lb) |

ORDERING INFORMATION

| Model | Description | P/N |
|---------------|-------------|----------|
| System | | |
| INTEGRAL-M88 | | 10721170 |

DIMENSIONS

