eMIMO1616

DIGITAL MATRIXES

Installation Digital Matrix

PRODUCT OVERVIEW

eMIMO1616 is a digital audio matrix with 16 input and 16 output analogue channels. The input channels are: 4 channels for MIC/MONO LINE, 4 channels for ST LINE and 8 channels for MONO LINE received on the unit's REMOTE ports, from wall panels Emcontrol1. The 16 output channels can be set up individually (MONO zones) or in pairs (STEREO zones). 8 REMOTE ports for connecting monitoring wall panels + sending audio from the zones. 2 ports for connecting pager consoles. 2 audio signal priority levels (talkover/pager).

Programming by integrated web server and standard web navigator, without the need to install additional software. Remote control for the user with the eMIMO pilot application, available for Android and iOS devices.

KEY FEATURES

• 16x16 digital matrix
• Programming and control by integrated web server and standard web navigator (no additional software required).
• Control from the front panel and user remote control by:
    o eMCONTROL1 wall panels (up to 8)
    o eMPAGE warning consoles (up to 2)
    o eMIMO pilot application, compatible with Android and iOS: control graphic panels set to user requirements
    o TP-NET protocol for control and integrating with third party systems
• Control available, by zone (output): selection of audio source (input), volumen adjustment and MUTE, 3 band tone adjustment
• Input distribution, by type:
    o 4 x ST LINE
    o 4 x MICRO / MONO LINE with priority function that can be activated
    o 8 x MONO LINEA available in REMOTE ports, from wall panels and eMCONTROL1
• Audio over audio priority function with two levels: inputs 5 to 8 MIC/LINE quieten (or completely mute) the sound content present (programme audio) in specific target zones (emergency messages, warnings, etc.), in Talkover mode o Pager
• MUTE port can be activated by closing the external dry contact, affecting programmed outputs to this effect
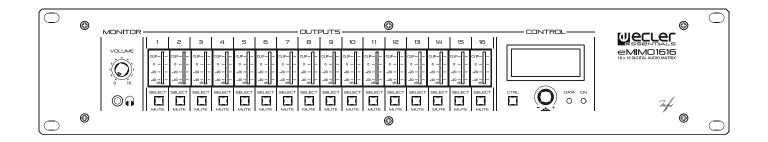
APPLICATIONS

• Solutions for background music and notices with message priority and selection of source/independent volume.
• Public address system for corporate spaces, catering, leisure centres, outlets, public buildings, etc.
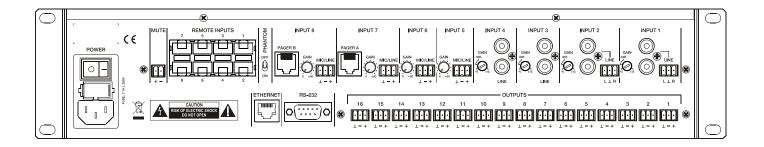
ACCESSORIES AND COMPATIBLE PRODUCTS

• eMCONTROL1
• eMPAGE
• WPa Series

MECHANICAL DIAGRAMS

TECHNICAL DATA

DSP	
DSP	Floating point 32/64bit
Sampling Rate	48kHz
Latency IN to OUT	<1.5ms
AD/DA Converters	
Resolution	24bit AKM
Dynamic Range	AD:111dB, DA: 115dB
Analogue	
Input 1-4- (LINE)	Sensitivity: +5 / -15dBV External potentiometer adjust Input impedance: >13k Input connector: RCA female. Input 1 and 2 with EUROBLOCK stack Input type: Unbalanced
Input 5-8 (MIC/LINE)	Sensitivity: +0 / -50dBV External potentiometer adjust Input impedance: >24k electronically balanced CMRR: >60dB (20Hz ÷ 20kHz) Input connector: Terminal block (Symmetrical) Pagers: Input 7 and 8 (by RJ45 connector) Input type: Balanced Phantom voltage: +48VDC
Input 9-16 (Remote)	Sensitivity: 0 dBV without adjustment. Input impedance: >24k electronically balanced CMRR: >60dB (20Hz ÷ 20kHz) Input connector: RJ45 Connector Input type: Balanced
External MUTE	Normally open. Assignable to any output zone
Frequency response (+0dB / -0.5dB)	<10Hz ~ 20kHz
Flatness	better than ±0.1dB
THD+Noise @ 1kHz, 1Vrms	< 0.005%
Max. Output Level	12dBV
Output Noise floor FFT (20Hz - 20kHz)	>110dB
Interchannel crosstalk (20Hz - 20kHz)	> 90dB
CMRR 20Hz- 20kHz	>60dB typical

Processing	
Input Level (x16)	Volume: From Off to 0 dB MUTE: Yes Polarity: Yes HPF (inputs 5-8): 50Hz to 150Hz – 3dB Metering: VuMeter post Fader Stereo: On – Off
Input Noise Gate (x4)	Inputs: Input 5 to 8, Bypass ON - OFF Threshold: From -80dBV to +12dBV Depth: From 0 dB to 80 dB Attack: From 0.1ms to 500ms Hold: From 10ms to 3000ms Release: From 10ms to 1000ms
Input EQ (x16)	Type: Baxandall 3 ways EQ Gain: -10dB ~ +10dB in 0.1dB steps Frequency: Low 200Hz Mid 1kHz High 6.3kHz
Output Level (x16)	Volume: From Off to 0 dB MUTE: Yes Polarity: Yes Metering: VuMeter post Fader Stereo: On – Off
Ducker (x4)	Input: IN5 to IN8. In 7 and 8 selectable from DUCKER to PAGER Outputs: Selectable by Duckers/Pagers panel Priority: Four levels (1 – 4) Depth: 0dB to 80 dB Attack time: 5ms to 2000ms Release time: 50ms to 3000ms Threshold: -80dBV to +12dBV Hold time: 10ms to 3000ms
Pager (x2)	Input: IN7 and 8, selectable from PAGER to DUCKER Outputs: Selectable by Duckers/Pagers panel Priority: Four levels (1 – 4). 1 max, 4 min Functions: Two function buttons (F1, F2) Depth: 0dB to 80 dB Attack time: 5ms to 2000ms Release time: 50ms to 3000ms Chime volume: -12dBV to +0dBV Chime melody: None, Melody 1, Melody 2
Pilot panels	General: ON-OFF, Public, Label, Users and Zone Volume control: ON-OFF, Label and Style Source selection: ON-OFF, Label and Allowed sources Equalizer: ON-OFF, Label, and Style Color: Controls, Text and Background
Mechanical	
Dimensions (WxHxD)	482.6x88x210 mm / 19x3.5x8.3 in
Weight	3.7 kg / 8.1 lb
Supply	
Mains	90-240VCA 50-60Hz
Power consumption	20W
Miscellaneous	
Management Connectivity	Ethernet Base-Tx 10/100Mb Auto X-Over CAT5 up to 100m
Remote Bus	RS485
Aux. Power Supply for Remotes	+12VDC, 0,6A. max. (short circuit protected)
Management control	Web APP, Android and iOS APP, TPNET and RS232