VIVO-X8

DIGITAL PROCESSORS & MATRIXES

EclerPLEX Matrix



PRODUCT OVERVIEW

VIVO-X8 is an EclerPLEX Host matrix with 8 analogue audio input ports and 8 analogue audio output ports, scalable thanks to two X-link ports. Each X-link port allows the connection of one BIO Series expansion unit. VIVO-X8, performing as a Host unit in an EclerPLEX deployment, can contain multiple projects running simultaneously and serve user control panels to end users.

KEY FEATURES

- EclerPLEX ecosystem host matrix unit.
- 8 MIC / LINE analogue audio input ports (+48V Phantom selectable per port).
- 8 LINE analogue audio output ports.
- 4 GPI ports.
- 1 microSD card slot (for the 4 players).
- 2 x X-link audio&control expansion ports (each port allows to locally connect an external BIO Series expansion unit).
- Scalable up to a 24 x 24 audio matrix, including:
  - 24 x 24 analogue audio ports (by adding 2x BIO-X8 or BIO-X8G units).
  - 20 x 16 GPIO ports (by adding 2x BIO-X8G units).
- 2 x Ethernet (NET1 control, NET2 Control).
- 1 x RS-232 control port.
- 1 x 1.9" Colour TFT Display.
- Flexible processing structure (allows for custom-size matrix size matrices and custom-DSP power projects).
- Embedded EclerPLEX application that includes:
  - A Workspace, including multiple types of custom-size simultaneous projects running simultaneously, events, calendars, presets and more.
  - An editor, manager and server of User Control Panels
  - Scripting automation & control system.
  - 4 Internal SW audio players.
  - 2 Internal audio generators.
  - EclerCLOUD monitor and control native device.
  - Auto update feature.

The hardware is designed to support all the features described in this document. Some are available from version 1.0, while others will be enabled progressively through future software updates.

APPLICATIONS

- Retail
- Corporate
- Sports & Wellness
- Hospitality

ACCESSORIES & COMPATIBLE PRODUCTS

- BIO-X8 
- BIO-X8G 

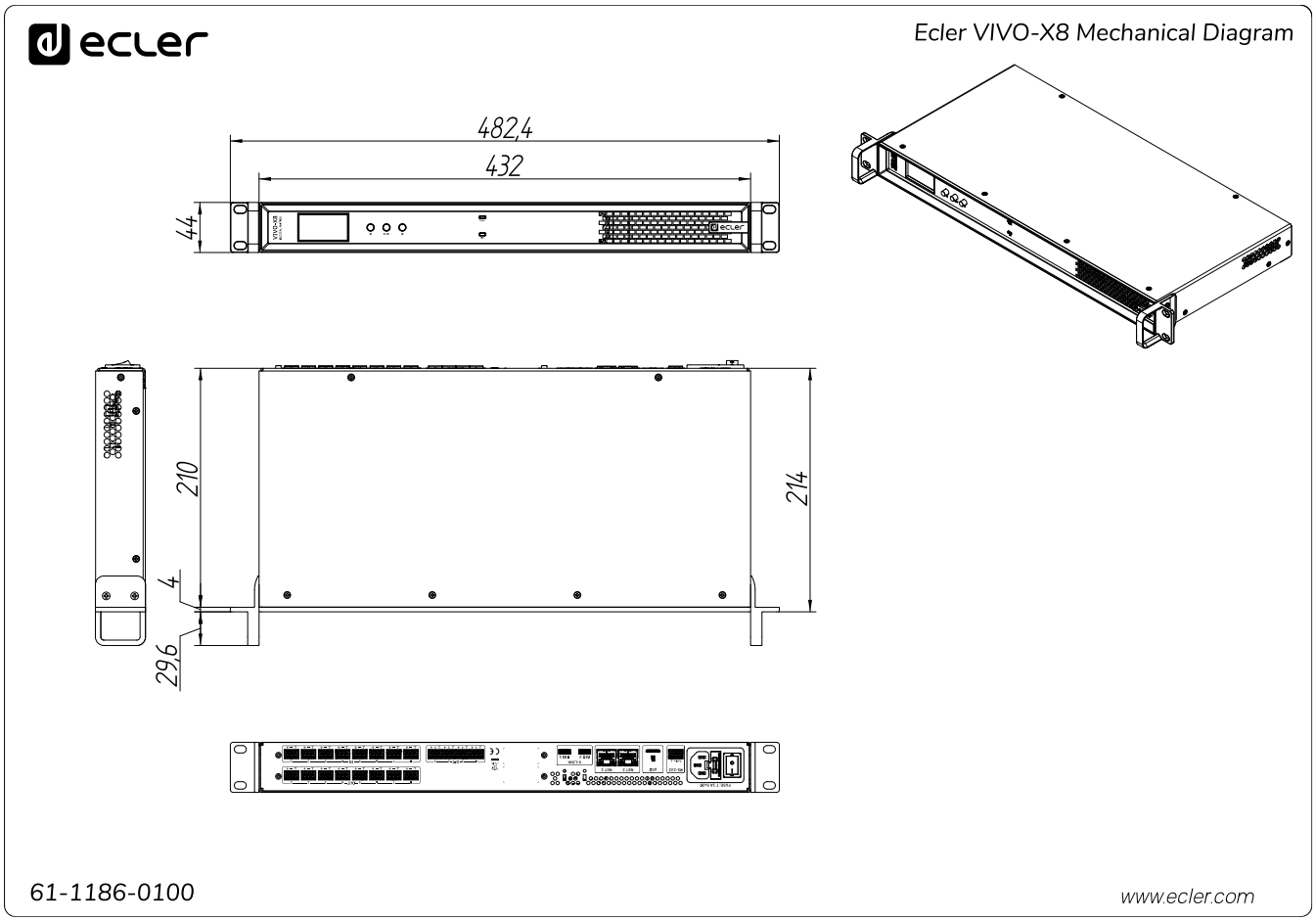
TECHNICAL SPECIFICATIONS

VIVO-X8

DIGITAL ENGINE	
Processor	Quad core 64bits 1,5GHz
AUDIO CONVERTERS	
Sampling rate	48 kHz
Resolution	32 bit
Latency	3.87ms
Frequency response	10Hz to 20kHz (-0,5 dB)
Dynamic range	ADC:115dB, DAC: 115dB
ANALOGUE AUDIO INPUT PORTS	
Number of input ports	8, MIC/LINE level
Connection type	Euroblock, 3-pin, balanced
Input sensitivity	-32,5 dBV to +18,5 dBV -30,3 dBu to +20,7 dBu
Input impedance	8kΩ (balanced), 4kΩ (unbalanced)
Max input level	18,5 dBV / 20,7dBu
Mic preamp EIN	<-129,5 dBV <-127,3 dBu
Dynamic range	Gain 0 dB: >110,2 dB Gain 21 dB: >109,5 dB Gain 42 dB: >105,5 dB Gain 51 dB: >99,5 dB
THD + Noise	Gain 0 dB & Vin 0 dBV: 0,0025% Gain 21 dB & Vin -21 dBV: 0,0026% Gain 42 dB & Vin -42 dBV: 0,0044% Gain 51 dB & Vin -51 dBV: 0,0085% Gain 0 dB & Vin +17 dBV: 0,0010% Gain 21 dB & Vin -4 dBV: 0,0015% Gain 42 dB & Vin -25 dBV: 0,0010% Gain 51 dB & Vin -34 dBV: 0,0015%
CMRR	>70dB typ (1kHz) >60 dB typ (20 Hz - 20kHz)
Phantom power	+48VDC, 10mA per input max
ANALOGUE AUDIO OUTPUT PORTS	
Number of output ports	8, LINE level
Connection type	Euroblock, 3-pin, balanced
Max output level	18,5dBV / 20,7dBu
Output impedance	300Ω (balanced), 150Ω (unbalanced)
Dynamic range	> 112,5 dB
Crosstalk	> 95dB
AUDIO OVER IP	
Interfaces	1 x RJ-45 - NET2
CONNECTIVITY	
Ethernet	2, RJ-45 connector NET1 & NET2 (no switch capability) Ethernet Base-Tx 10 /100Mb, 1Gb Auto X-Over
Serial port	RS-232, Euroblock, 3-pin connector
Programming and control	EclerPLEX (Web application), TPNET (UDP/RS232), UCP control panels
X-LINK	2, X-LINK ports. USB-C connector

REMOTE CONTROL CONNECTIONS	
GPIs	4, 0 to 12VDC
REAL-TIME CLOCK	
Retention time	> 5 years
Accuracy	±1 minute / month
LOCAL STORAGE	
microSD	SDXC
Capacity	Up to 2TB
File system	FAT16, FAT 32, VFAT (read/write)
	NTFS (read)
	Multi-partition up to 1
Playable audio files	mp3, ogg, WAV, FLAC, AIFF
Files analysis	65354 playable folders
	65354 playable folders within each folder
	65354 playable files within each folder
Folder hierarchy	Up to 8 containing the root directory
Sorting	UNICODE, in alphabetical order
	Up to 100 folders / files by folder
	Folders/files over 100 sorted in the FAT order
ELECTRICAL	
Power supply	Internal.
	Universal, regulated switching mode supply
AC mains requirement	100-240 VAC @ 50-60Hz
AC mains connector	IEC C14 inlet
Power consumption	<16W Standard, <18W Typ, <21,5W Max
	<32VA Standard, <35,5VA Typ, <42,5VA max
Heat load	<65 BTU/h Typ, <80 BTU/h Max
Ventilation	FAN
PHYSICAL	
Operating temperature	Min: 0°C / 32°F
	Max: 50°C / 122°F
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	Min: 0°C / 32°F
	Max: 50°C / 122°F
Storage humidity	5 - 85% RH, non-condensing
Installation options	Desktop, 19" racks (1RU)
Included accessories	1x EU Mains cord, 1x Multiplug Mains cord, 4x Washers, 4x Rubber feet, 9x Euroblock connectors (green colour), 12x Euroblock connectors (blue colour), 2 USB holders, 2x Screws.
Dimensions (WxHxD)	482.4 x 44 x 214 mm / 18.99 x 1.73 x 8.43 in.
Weight	3.2 Kg / 7.05 lb.
Shipping dimensions (WxHxD)	585 x 385 x 75 mm / 23.03 x 15.15 x 2.95 in.
Shipping weight	4.65 kg / 10.25 lb.

MECHANICAL DIAGRAM



All product characteristics are subject to variation due to production tolerances
NEEC AUDIO BARCELONA S.L. reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.
For technical queries contact your supplier, distributor or complete the contact form on our website, in **Support / Technical requests.**