

BIO-X8G

DIGITAL PROCESSORS & MATRIXES

EclerPLEX Expansion Interface 8x8 Analogue Audio 8x8 GPIO



PRODUCT OVERVIEW

BIO-X8G is an affordable expansion interface that can easily scale up an EclerPLEX digital host matrix, adding to its default size 8 input and 8 output analogue audio ports, 8 GPI ports and 8 GPO ports. A maximum of 2 BIO-X8G units can be linked to the same EclerPLEX host matrix, reaching a maximum total matrix size of 24 analogue audio input ports, 24 analogue audio output ports and 24x24 GPIO control ports.

KEY FEATURES

- EclerPLEX audio I/O & control expansion unit, compatible with VIVO host units.
- Connection via X-link to the VIVO host unit (1m Ecler certified X-link cable included).
- Expansion features (added to the host VIVO unit ones):
 - 8 MIC / LINE analogue audio inputs ports (+48V Phantom selectable per port).
 - 8 LINE analogue audio output ports.
 - 8 GPI ports.
 - 8 GPO ports.
- A maximum of 2x BIO-X8G units can be connected to a single VIVO host unit, using its 2x X-link expansion ports.

APPLICATIONS

- Retail
- Corporate
- Sports & Wellness
- Hospitality

TECHNICAL SPECIFICATIONS

BIO-X8G

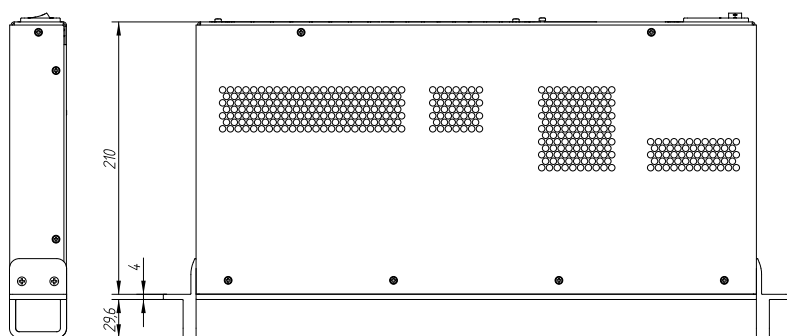
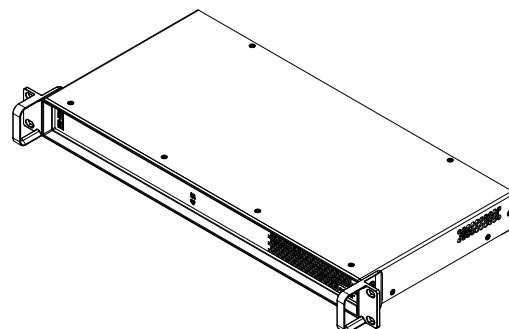
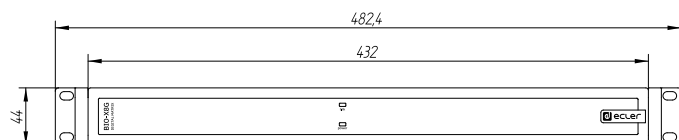
Audio Converters		
	Sampling rate	48 kHz
	Resolution	32 bit
	Latency	<4ms
	Frequency response	10Hz to 20kHz (-0,5 dB)
	Dynamic range	ADC:115dB, DAC: 115dB
Analogue Audio Input Ports		
	Number of input ports	8, MIC/LINE level
	Connection type	Euroblock, 3-pin, balanced
	Input sensitivity	-32,5 dBV to +18,5 dBV -30,3 dBu to +20,7 dBu
	Input impedance	7k6Ω (balanced), 3k8Ω (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%
	CMRR	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%
	Phantom power	>70dB typ (1kHz) >60 dB typ (20 Hz - 20kHz) +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
Connectivity		
	X-LINK	1, X-LINK port. USB-C connector
Remote Control Connections		
	GPIs	8, 0 to 12VDC
	GPOs	8, 3 poles isolated relay; Contact rating: 2A, 30VDC; 0,5A, 125 VAC

Electrical		
	Power supply	Internal. Universal, regulated switching mode supply
	AC mains requirement	90-264 VAC @ 47-63Hz
	AC mains connector	IEC C14 inlet
	Power consumption	13 W 25 VA
	Heat load	44,5 BTU / hour
	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, 1x USB-C Ecler X-Link certified cable, 16x Euroblock connectors (green colour), 16x Euroblock connectors (blue colour), 1x USB holder, 1x Screw.
	Dimensions (WxHxD)	482.4 x 44 x 214 mm / 18.99 x 1.73 x 8.43 in.
	Weight	3.0 kg / 6.6 lb
	Shipping dimensions (WxHxD)	585 x 75 x 385 mm / 23.03 x 2.95 x 15.15 x in.
	Shipping weight	4.45 kg/ 10.25 lb

MECHANICAL DIAGRAM



Ecler BIO-X8G Mechanical Diagram



All the measurements are in mm

6I-1140-0200

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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](#).

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