innosonix

MICRO MAXX SERIES

µMA01/POE

DATASHEET

+49 (0) 9561 74599-80 innosonix.de info@innosonix.de

Specifications

Table 1. AUDIO

Power Stage	Half-Bridge GaN amplifier (Gallium nitride)		
Output Power (EIAJ Test Standard 1kHz 1% THD)	4Ω	8Ω	Hi-Z
	200W	400W	400W
Max output Voltage	145 V_{peak}		
Max output Current Limited	10 A_{peak}		
Emergency Shutdown Current	15 A_{peak}		
DC Offset	<25mV		
Frequency response	10Hz-20kHz / 4-8Ω: +0.0 -1dB		
S/N typ	108dBA		
Analog Gain	Software Adjustable, 0dBFS on any Input Interface: 20V_p - 60V_p (default: 50V_p)		
THD+N @ 4Ω	1W	10W	
	< 0.05%	< 0.1%	
SMPTE IMD	< 0.1%		
CCIF IMD	< 0.1%		
Output impedance	typ 40 mΩ		
Protection	Overtemperature, DC and Overcurrent		

Table 2. DSP

Architecture	ARM based 32/64-bit floating point
Inputs	1 x input matrix (4 inputs) per channel
	4-Ch AoIP (Dante / AES67 / etc) + sine, white- pink- brown-noise
Level Control	Mute, Volume, Phase
Filter per channel	32 x EQ / Highpass / Lowpass
Filter types	bell, notch, highshelf, lowshelf, allpass 1th / 2nd order
High- Lowpass types	6 - 48dB/Oct, Bessel, Butterworth, Linkwitz/Riley, Variable Q
FIR Filter	512 Tabs, ASCII file import

Fraction Delay	48000 Samples / 330m / 1000ms (resolution 0.001 units) per channel
CurrentLimiter	Threshold [Ap]
Voltagelimiter	2 x Threshold [Vp], Attack, Release
Powerlimiter	Threshold [W], Attack, Release
Speaker Monitoring	**Live Impedance Analyzer:** This method requires an active signal to be present at the output. It calculates impedance spectrum information by analyzing the current and voltage of the output signal. **Pilot Tone Generator:** This alternative uses a dedicated 20 kHz pilot tone to determine impedance. Crucially, this tone is transmitted continuously and operates independently, meaning no program signal is required at the output.

	Latency	
digital input	134 samples, (117 samples DSP + 17 samples DAC)	
Input	**@ 44.1kHz**	**@ 48kHz**
AoIP	3.04ms	2.8 ms

Table 3. CONNECTOR

Speaker connector	Wuerth Elektronik 691343710004
	Phoenix Contact MSTB 2,5/ 4-ST - 1779851
	Phoenix Contact MSTB 2,5/ 4-STF - 1786857
	Note: All 5mm pitch "Euroblock" connectos can be used

Table 4. USER INTERFACES

Hardware	Multicolor LED, Factory-reset button
Software	RESTful-API used by maxx_remote
Third Party Plugins	Q-SYS, Loxone

DIMENSIONS / WEIGHT

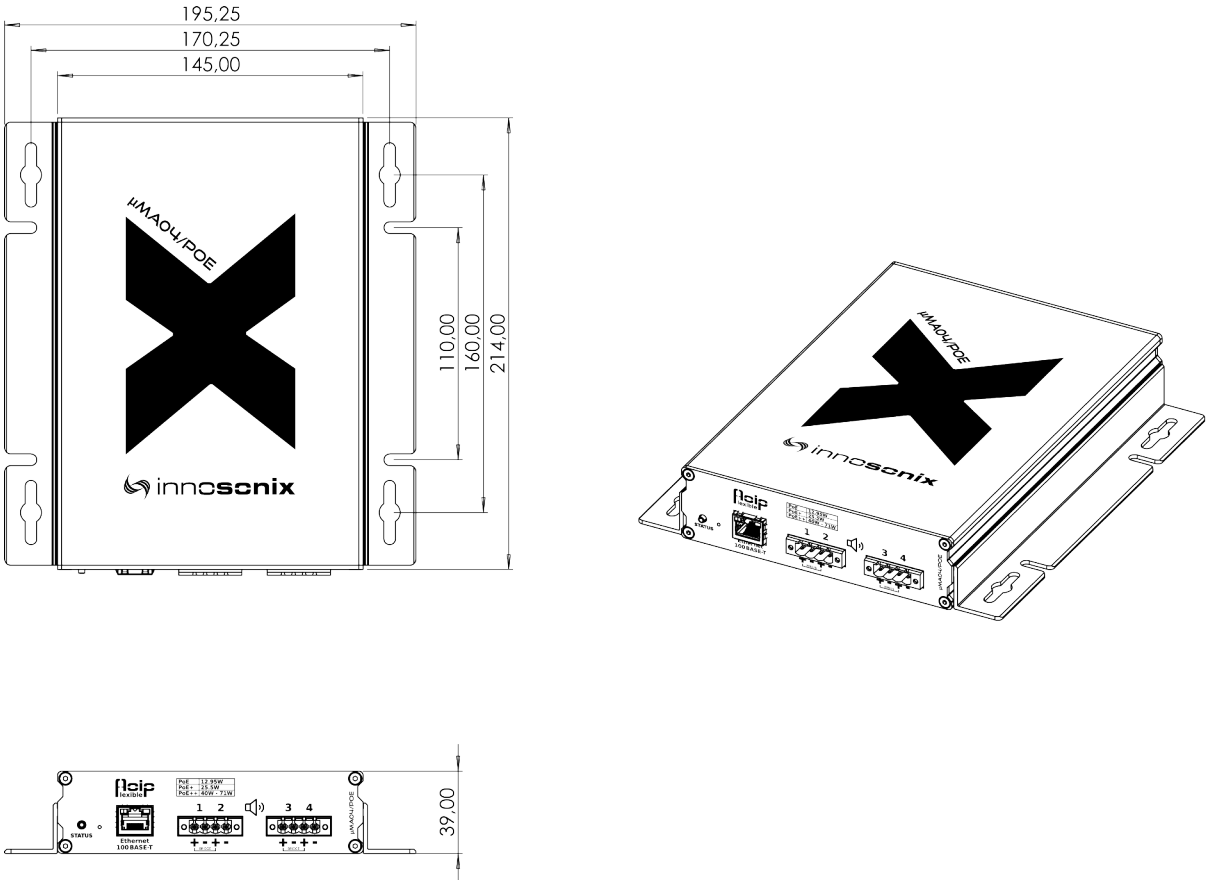

Figure 1. µMaxx dimensions

Table 5. µMaxx dimensions

Dimensions	W 195.25mm H 39.00mm, D 214mm
Weight	1.25 kg
Dimensions Boxed	30 x 26 x 6 cm
Weight Boxed	1.65 kg

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Innosonix Gmbh Hauptstr. 35 D-96482 Ahorn (Germany)