



MAXX-SERIES

DIGITAL POWER AMPLIFIERS

MA32/D

AUDIO

Output Power (EIAJ Test Standard 1kHz 1% THD)	4Ω		8Ω	
	270W		140W	
Max output Voltage	47 V _{peak}			
Max output Current	15 A _{peak}			
DC Offset	<25mV			
Frequency response	10Hz-20kHz / 4-8Ω: +1.0 -1.5dB			
S/N typ	105dBA			
Analog Gain	Software Adjustable, 0dBFS on any Input Interface ⇒ 20V _p - 60V _p (default: 60V _p)			
THD+N @ 4Ω	1W	10W	270W	
	< 0.05%	< 0.05%	1%	
SMPTE IMD	< 0.1% @ 1/8 Power 4Ω			
CCIF IMD	< 0.1% @ 1/8 Power 4Ω			
Output impedance	typ 60 mΩ			
Crosstalk	channel enabled		channel disabled	
	typ < 75dB	typ 90dB (distant channels)	typ < 100dB	
Latency @48kHz	2.04ms			
Protection	Overtemperature, DC and Overcurrent			

DSP

Architecture	FPGA based 32-bit fixed point
Inputs	16 x input matrix per channel (DANTE / AES3 / MADI)
	sine, white- pink- brown-noise
Level Control	Mute, Volume, Phase
Filter per channel	32 x EQ / Highpass / Lowpass
Filter types	bell, notch, highshelf, lowshelf
High- Lowpass types	6 - 48dB/Oct, Bessel, Butterworth, Linkwitz/Riley, Variable Q
FIR Filter	2048 Tabs, ASCII file import
Delay	48000 Samples / 330m / 1000ms per channel

CurrentLimiter	Threshold [Ap]
Voltagelimiter	2 x Threshold [Vp], Attack, Release
Powerlimiter	Threshold [W], Attack, Release
Speakerdetection	20kHz Pilot Tone generating with Volume, Threshold, Debounce

CONNECTOR

Control input connectors	RJ45 (100Mbit/s Ethernet)
Audio signal input connectors	RJ45 (DANTE), BNC 75R (MADI Coax, AES3id), SC Optic (MADI Fibre)
Speaker connector	Wuerth Elektronik 691352710002 Phoenix Contact MSTB 2,5/ 2-ST - 1754449
AC mains	Neutrik Powercon True1

AC MAINS POWER

Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)	
Operating Voltage	90 - 264VAC 50/60Hz	
AC Current typ.	@230V	@110V
	10A	16A
Inrush Current	50A max.	
Suggested circuit breaker	B16	
Earth Leakage Current	<2mA / 240V	

32 CH Version		
Power Factor	@230V	@110V
amps power off	0.46	0.85
idle	0.64	0.95
1/8 power @ 4 Ohm	0.96	0.98
Consumption / current draw	@230V	@110V
amps power off	36W	36W
idle	98W	102W
1/8 power @ 4 Ohm	1570W	1573W

THERMAL

Enviromental operating temperature	0 - 40°C			
Thermal dissipation	Fan, variable speed, temperature controlled front to rear airflow			
	@230V		@110V	
amps power off	31 kcal/h	122 BUT/h	31 kcal/h	122 BUT/h
idle	84 kcal/h	333 BUT/h	88 kcal/h	333 BUT/h
1/8 power @ 4 Ohm	464 kcal/h	1840 BUT/h	468 kcal/h	1855 BUT/h

USER INTERFACES

Hardware	Multicolor LED, LCD Display with 6 navigation Keys
Software	Webpage, RESTful-API

DIMENSIONS / WEIGHT

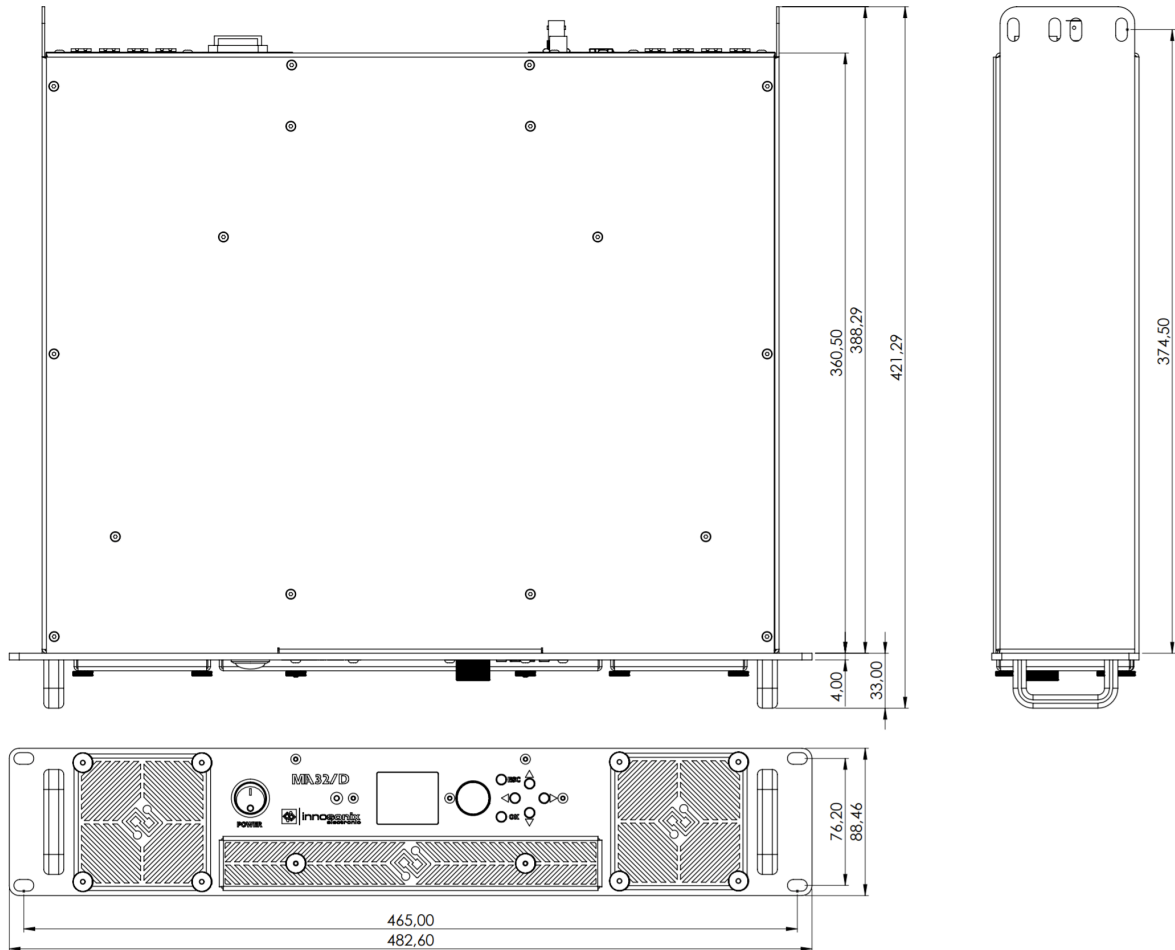


Figure 1. MA32/D dimensions

Dimensions

W 482.60mm (19") H 88.46mm (2 RU), D 392.3mm



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