

DSP Amplifiers

MA-4.100

Compact 4-channel digital amplifier with routing matrix and DSP, 4 × 100 W Peak / 4 Ohm, 9,5" / 1 U



DSP Amplifiers MA-4.100

The MA-4.100 is a compact 4-channel digital power amplifier for media applications and small sound system solutions. The DSP amplifier with a 4 x 4 matrix is ideal for, e.g. equipping conference and training rooms as well as for installation in media steles. It can be easily integrated into media controls via RS-485 and is effortlessly configured with the Fohhn Audio Soft via a USB-C socket.



Main features

- 4 x 100 W peak / 4 ohms
- Available in two variants: With Analog Inputs (MA-4.100 ANA) or Dante Input (MA-4.100 DAN)
- Compact dimensions: 9.5" / 1 U, 170 mm installation depth
- Mounting brackets for rack included
- Switchable phantom power on each input channel
- Two freely programmable switching contacts
- With Fohhn Airea connection
- Can be remotely operated and controlled over Fohhn Net
- Temperature controlled, low noise fan
- Auto Power Save for minimum standby power requirements
- Fohhn speaker presets ensure maximum safety, reliability and excellent sound quality
- 100% engineered and made in Germany



Available with the following color options



Black

Equipped with the following Fohhn technologies



Fohhn DSP
inside

Possible input interfaces for this product

Analog

AIREA®

Dante™

Technical data

Features

weight	1.2 kg
dimensions (W × H × D)	1 U / 1/2 19", 211 × 45 × 170 mm

Electronic features

amplifier technology	class D
amplifier outputs	4
DSP routing (matrix)	4 × 4
frequency response	20 Hz – 20 kHz
signal/noise ratio	>103 dB/A
THD+N	0,08%
dynamic range	>120 dB
password protection	yes
auto power save	adjustable from 1 s to 12 h, or never active
protective circuit	over voltage protection, over current protection, over temperature protection, short-circuit protection, DC protection, power on delay, soft start and inrush current limit
power supply	100 – 240 V AC 50/60 Hz, universal power supply with Power Factor Correction (PFC)
power consumption	Maximum (RMS) 65 W, Idle state 7 W, Auto Power Save 2 W, Standby 2 W
heat dissipation	max. 15 W, 51 BTU/h, 13 kcal/h
temperature range	0 – 40 °C
cooling	temperature-controlled fan
output power	4 x 65 W / 4 ohms, 4 x 35 W / 8 ohms (1 kHz, THD+N < 1 %)
minimum impedance	4 ohms
input channels	4

Controller

digital signal processors	1
independent limiters	20
FIR filter	yes
input gain	-80 dB – +12 dB
routing gain	-80 dB – +12 dB
output gain	-80 dB – +12 dB
EQ	8 × 10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
selective 3-band limiting	bass / mid / high
limiter / compressor	8
noise gate	8
delay	4 × 0 – 145 ms (0 – 50 m) outputs, 4 × 0 – 30 ms (0 – 10 m) inputs
X-over	8 × Linkwitz/Riley 4. order, 24dB/oktave, Highpass 10 Hz – 20 kHz, Lowpass 10 Hz – 20 kHz
user presets	100
speaker presets	100
system latency	1.2 ms
band-specific time constants	yes
filter technology	80-bit double precision
input	Analog or DANTE 32 kHz – 96 kHz, 16/24 bit, AES/EBU
Input DSP processing	yes

Remote control and remote monitoring

remote control	Fohhn-Net over RS-485, Fohhn Audio Soft, USB-C
remote monitoring	temperature, protect, power supply, Fohhn Net, Fohhn Audio Soft
switching contact	Load preset, Standby On/Off

Display (front)

ready LED	blue = Power on, blue blink = Sign
protect LED	red = Error / Protect / Standby
USB Config LED	blue = Host, remote control over USB

Connections and controls

outputs	Phoenix 8-pin, max. 3.3 mm ² flexible, 3.3 mm ² rigid
USB Config	1 × USB-C socket
Airea Net	1 × RJ45
mains connection	IEC socket
switching contact 1 and 2	1 × Phoenix 3-pin

Display (rear)

receive / send LED	Remote control, Fohhn-Net
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Input interface analog

S/N ratio	> 108 dB/A
THD	< 0,005 % typ. < 0,003 % 1 kHz 0 dBu
signal inputs	Analog, max. signal +18 dBu, phantom power (24 V DC) switchable
inputs	4 × analog/mic
input impedance	10 kohm
frequency response	20 Hz – 20 kHz
latency	1,0 ms

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