

System Amplifiers

MA-4.100

Compact system amplifier for fixed installations, 4 × 65 W, 1 U, 9.5"



Analog

AES/EBU

AIREA®

Dante®

System 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 × 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 × 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 Airex connection
- Can be remotely operated and controlled over Fohhn Net
- Q-SYS Plugin available in combination with Fohhn NA-4 or ABX-6
- 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 Airea



Fohhn DSP
inside



Auto Power
Save



Power Sharing

Possible input interfaces for this product

Analog

AES/EBU

AIREA[®]

 **Dante**[™]

Technical data

Physical 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% (1 kHz, 8 ohms, 3 dB below clipping)
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 300 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 × 65 W / 4 ohms, 4 × 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 4th 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, signals, power supply, Fohhn Net, Fohhn Audio Soft
switching contact	load preset, standby on / off

Display (front)

ready LED	blue = power on, blue flashing = sign
protect LED	red = error / protect / standby
USB Config LED	blue = host, remote control over USB

Connections and controls

mains connection	1 × C14 IEC socket
switching contact 1 and 2	1 × Phoenix 3-pin
Airea Net	1 × RJ45
outputs	1 × Phoenix 8-pin, max. 3.3 mm ² flexibel, 3.3 mm ² rigid
USB Config	1 × USB-C socket

Display (rear)

receive / send LED	remote control, Fohhn Net
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Input interface analog

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

weight: net weight without optional equipment

heat dissipation: pink noise, 6 dB crest, 1/4 Pmax

Input interface Dante

Input interface Dante

support for AES67 yes

latency Dante + 0.6 ms

inputs 1 × RJ-45 100BASE-T Ethernet, Dante, 4 × 48 kHz



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