

DSP Amplifiers

MA-4.600

Digital DSP amplifier with routing matrix, 4 × 600
W, 1 U, 19"



Analog

AIREA®

Dante™

DSP Amplifiers MA-4.600

The MA-4.600 is a compact 4-channel digital amplifier with a 4 × 4 routing matrix. It is ideal for smaller and medium-sized projects and it's extremely flexible and cost effective. It can be easily integrated into media controls and is effortlessly configured with the Fohhn Audio Soft via a USB-C socket.



Main features

- Output power: 4 × 600 W / 4 ohms / 100 V / 70 V
- Available in two variants: With Analog Inputs (MA-4.600 ANA) or Dante Input (MA-4.600 DAN)
- Compact and light: 1 U, 5.2 kg
- Mounting brackets for rack included
- Two freely programmable switching contacts
- With Fohhn Aireas 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



100 V optional

Possible input interfaces for this product

Analog

AIREA®

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Technical data

Features

weight	5.2 kg
dimensions (W × H × D)	1 HE / 19", 440 x 45 x 370 mm

Electronic features

amplifier outputs	4
DSP routing (matrix)	4 x 4
frequency response	20 Hz – 20 kHz
signal/noise ratio	>100 dB/A
THD+N	0,15% (1 kHz, 8 ohm, 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 (RMS) 700 W, Idle state 10 W, Auto Power Save 5 W, Standby 2 W
heat dissipation	max. 120 W, 410 BTU/h, 104 kcal/h
temperature range	0 – 40°C
cooling	temperature-controlled fan
output power	4 x 600 W / 4 ohm / 100 V / 70 V, 4 x 300 W / 8 ohm (1 kHz, THD+N <1 %)
minimum impedance	4 ohms

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 x 0 – 145 ms (0 – 50 m) outputs, 4 x 0 – 30 ms (0 – 10 m) inputs
X-over	8 x 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

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

Display (rear)

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

input impedance	10 kohm
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, phantom power (24 V DC) switchable
inputs	4 x analog/mic

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