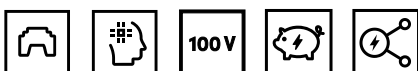


**Fohhn**  
colors of sound

Datasheet

# System Amplifiers MA-4.600



Analog

AES/EBU

AIREA®

Dante™

# System 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.



- 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 Aira 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

Available with the following color options



Black

Equipped with the following Fohhn technologies



Fohhn Aira



Fohhn DSP inside



100 V optional



Auto Power Save



Power Sharing

Possible input interfaces for this product

Analog

AES/EBU

AIREA

Dante™

# Technical data

## Physical features

dimensions (w × h × d)	1 U / 19", 440 × 45 × 370 mm
weight	5.2 kg

## Electronic features

amplifier technology	Class D
support for AES67	Yes
amplifier outputs	4
DSP routing (matrix)	4 × 4
frequency response	20 Hz – 20 kHz (+/- 0,3dB @ 8 Ohm)
signal/noise ratio	> 103 dB (A)
THD+N	0,15% (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	overvoltage protection, overcurrent protection, overtemperature protection, short circuit protection, DC protection, power-on delay, soft start and inrush current limitation
power supply	100 – 240 V AC 50/60 Hz, universal power supply with Power Factor Correction (PFC)
power consumption	maximum 700 W, idle state 35 W, Auto Power Save 2 W, standby 2 W
heat dissipation	max. 120 W, 410 BTU/h, 104 kcal/h
operating temperature	0 – 40°C
cooling	temperature-controlled fan
output power	4 × 600 W / 4 ohms / 100 V / 70 V, 4 × 300 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 × RJ-45
outputs	1 × Phoenix 8-pin, max. 3.3 mm <sup>2</sup> flexibel, 3.3 mm <sup>2</sup> rigid
USB Config	1 × USB-C socket

### Display (rear)

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

inputs	4 × analog
signal inputs	analog, max. signal +18 dBu
THD	< 0,005 % typ., < 0,003 % 1 kHz 0 dBu
S/N ratio	> 108 dB/A
latency	1.0 ms
frequency response	20 Hz – 20 kHz
input impedance	10 kOhms

weight: net weight without optional equipment  
heat dissipation: pink noise, 6 dB crest, 1/4 Pmax

# Connection variants



## Input interface Dante (DAN)

inputs	1 × RJ-45 100BASE-T Ethernet, Dante, 4 × 48 kHz
latency	Dante + 0.6 ms
support for AES67	yes

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