

DSP Amplifiers

DI-4.1000

Digital DSP amplifier, 4 × 1000 W, 2 U, 19"



Analog

AES/EBU

 Dante™

DSP Amplifiers DI-4.1000

The DI-4.1000 is a digital 4-channel amplifier Made in Germany. The DSP amplifiers developed and manufactured by Fohhn offer high power density and excellent sound. The amplifiers are designed for mobile sound systems and fixed installation. They provide all the essential features and almost limitless connectivity in terms of audio inputs. Whether AES/EBU, Dante or Analogue – they offer maximum flexibility thanks to exchangeable connection modules. Corresponding speaker presets ensure optimum performance and reliability.



Main features

- Output power: 4 × 1000 W / 4 ohms / 100 V / 70 V
- Can be remotely operated and controlled over Fohhn Net
- Extensive DSP, controllable in real time with the Fohhn Audio Soft
- Temperature controlled, low noise fan
- Auto Power Save for minimum standby power requirements
- Installation size: 2 U / 19"
- Light weight, only 9.8 kg

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

AES/EBU

 **Dante™**

Technical data

Features

weight	9.8 kg
dimensions (W × H × D)	2 U / 19", 485 x 89 x 425 mm

Electronic features

amplifier technology	Class D
amplifier outputs	4
DSP routing (matrix)	4 × 4
frequency response	20 Hz – 20 kHz
signal/noise ratio	>100 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 (RMS) 1200 W, idle state 70 W, auto power save 10 W, standby 5 W, power on/off switch / remote power off 2 W
heat dissipation	Maximal 200 W, 680 BTU/h, 172 kcal/h (Pink Noise, 6 dB crest, 1/4 Pmax)
temperature range	0 – 40 °C
cooling	temperature-controlled fan
output power	4 × 1000 W / 4 ohms / 100 V / 70 V, 4 × 500 W / 8 ohms (1 kHz, THD+N <1 %)
minimum impedance	3 ohms
input channels	4

Controller

digital signal processors	2
independent limiters	20
input DSP processing_Filter	1
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 – 350 ms (0 – 120 m) outputs, 4 × 0 – 88 ms (0 – 30 m) inputs
X-over	8 × Linkwitz-Riley 4th order (24 dB/octave), high pass 10 Hz – 20 kHz, low pass 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	AES/EBU 32 kHz – 96 kHz, 16/24 bit
Input DSP processing	yes

Remote control and remote monitoring

remote control	Fohhn-Net over RS-485, Fohhn Audio Soft
remote monitoring	temperature, protect, signals, power supply, Fohhn Net, Fohhn Audio Soft
fault message contact	1 × Relais, 2 × UM, 3-pin Phoenix
switching contact	load preset, standby on/off

Display (front)

receive / send LED	remote control, Fohhn-Net
ready LED	blue = Power on, blue flashing = Sign
protect LED	red = Error / Protect / Standby
input LED	4 × input signal LED, white = signal (> -50 dBFS), red = clip (> -3 dBFS)
output LED	4 × output signal LED, white = signal (> -50 dBFS)

Connections and controls

controls	Power on/off Switch
remote power in / out	2 × Phoenix 2-pin
power supply for extern small devices 24 V / 5 W	1 × Phoenix 2-pin
24 V / 5 W power LED	green = on
mains connection	1 × PowerCON
fault contact (open/close)	1 × Phoenix 3-pin

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