

系统功率放大器

DI-4.1000

用于移动和固定安装的高性能系统放大器，4×1000W，2U，19英寸



Analog

AES/EBU

 Dante™

系统放大器 DI-4.1000

DI-4.1000 是一个德国制造的数字4通道放大器。由Fohhn开发和制造的DSP功放具有高功率密度和出色的声音。这些功放是为移动音响系统和固定安装而设计的。它们在音频输入方面提供所有的基本功能和几乎无限制的连接。无论是AES/EBU、Dante还是模拟，它们都能通过可更换的连接模块提供最大的灵活性。相应的扬声器预置确保了最佳的性能和可靠性。



Main features

- 输出功率：4 × 1000 W / 4欧姆 / 100 V / 70 V
- 可以通过Fohhn网进行远程操作和控制
- 丰富的DSP，可实时控制。Fohhn Audio Soft
- 可用的Q-SYS插件
- 温度控制，低噪音风扇
- Auto Power Save 以满足最低的待机功率要求
- 安装尺寸：2U/19"
- 重量轻，只有9.8公斤

有以下颜色可供选择



黑色

配备了以下Fohhn技术



Fohhn DSP 内幕



100V可选



自动省电模式



电源均分

该产品可能的输入接口

Analog

AES/EBU

Dante™

技术数据

Physical features	
dimensions (w × h × d)	2 U / 19", 485 x 89 x 425 mm
weight	9.8 kg
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
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
minimum impedance	3 ohms
input channels	4

Controller	
digital signal processors	2
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 – 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
mains connection	1 × PowerCON
fault contact (open/close)	1 × Phoenix 3-pin
switching contact 1 and 2	1 × Phoenix 3-pin
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
USB Config	1 × USB-C socket

重量：不含可选设备的净重
散热：粉红噪声，6dB波峰，1/4 Pmax

标准输入接口 (AES/EBU)



Standard input interface (AES/EBU)	
inputs	2 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net
outputs	2 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net
signal inputs	AES/EBU 32 kHz – 96 kHz, 16/24 bit
signal outputs	AES/EBU link out from input
latency	0.0 ms

输入接口AES/EBU XLR



Input interface AES/EBU XLR	
inputs	2 × XLR AES/EBU, 1 × etherCON Fohhn-Net
outputs	2 × XLR AES/EBU, 1 × etherCON Fohhn-Net
signal inputs	AES/EBU 32 kHz – 96 kHz, 16/24 bit
signal outputs	AES/EBU link out from input
latency	0.0 ms

输入接口模拟XLR



Input interface analog XLR	
inputs	4 × XLR analogue, 1 × etherCON Fohhn-Net
outputs	4 × XLR analogue, 1 × etherCON Fohhn-Net
signal inputs	analog, max. level +15 dBu
signal outputs	analog link out from input
frequency response	20 Hz – 20 kHz
THD	
S/N ratio	>110 dB/A
input impedance	10 k ohm
latency	1.0 ms

输入接口 Dante Ultimo (DUC)



Input interface Dante Ultimo (DUC)

integration in media control	UDP text protocol
support for AES67	Yes
latency	Dante +0.6 ms
inputs	1 × RJ-45 100BASE-T Ethernet, Dante and Fohhn-Net
audio input channels	4
audio link	No
redundancy	No

输出选项 Speakon



Output option Speakon

outputs	4 × Speakon
---------	-------------

输出选项端子板



Output option terminal blocks

outputs	2 × Phoenix 4-pin
conductor cross-section	max. 6 mm ² flexible, 10 mm ² rigid

Fohhn Audio AG
Großer Forst 15
72622 Nuertingen
德国

电话 +49 7022 93323-0
传真 +49 7022 93324-0
www.fohhn.com
info@fohhn.com

