

KONTROL 1616 DAN

16 X 16 DSP Audio Matrix with
DANTE and USB audio



FEATURES

- **Powerful ADI Sharc 450MHz + 2xADI Sigma 300MHz**
- **16 channels analogue input / 16 channels analogue output**
- **16 X 16 DANTE network audio**
- **2 X 2 USB audio for easy integration with MS Teams, ZOOM or skype**
- **Auto Echo Cancellation (AEC) and Auto Noise suppression (ANS)**
- **Automatic Mixing (AMC)**
- **Automatic Gain Control (AGC)**
- **Full fledged matrix functionality**
- **Camera control for most of the camera protocols**
- **8 PEQ on all inputs and 8 PEQ on all outputs**
- **Phase/ Elliptic low and high pass filters**
- **Wall control panel integration via RS485**

The Alpha Acoustics® KONTROL 1616 is a full fledged matrix DSP with enormous capabilities. The processor has built in echo cancellation and noise suppression, gain control and automatic mixing capabilities. The Powerful ADI 21489 SHARC processor operates with a maximum operating frequency of 450 MHz, making it a very powerful DSP. The software enables quick selection and control of functions and also can be controlled from a tablet. The optional KONTROL KNOB16 can be used to access and control DSP parameters remotely.

KONTROL 1616 SPECIFICATIONS

Processor	32 bit floating-point DSP 450 MHz
Number of I/O	16 In / 16 out (analogue) , 16 in / 16 out (DANTE)
Sample Rate	48 kHz / 24 bit
System delay	< 3ms
Max Input level	17 dBu/Line, -3dBu/Mic, 20dB gain
Cross talk	≤ 100 dB
Phantom power	+48VDC, 6.5mA, for each channel
Output impedance	150Ω
Frequency response	20Hz-20kHz (+/-0.5dB)/Line
THD + Noise	-90dB(@17dBu,1kHz,A-wt)/Line, -90dB(@-6dBu,1kHz,A-wt)/Mic 0.003% @(17dBu,1kHz,A-wt)/Line, 0.005% @(-6dBu,1kHz,A-wt)/Mic
Crosstalk	<112 dB
SNR	110dB(@17dBu,1kHz,A-wt)/Line 100dB(@-6dBu,1kHz,A-wt)/Mic
E.I.N	≤ 127 dB with 150Ω
Dynamic Range	>118 dB
Ports	USB Type Micro-B, RS 232, RJ45 (TCP/IP) USB Type A-B, RS 232, RJ45 (TCP/IP)
GPIO Control Interface	8 logic inputs/outputs and 7 voltage input controls
Power supply	100 - 240 V AC , 50 Hz / 60 Hz
Dimensions	483mm x 265mm x 44mm
Operating temperature	-20°C~80°C
Net weight	3.8 Kg

APPLICATIONS

Conference rooms / Shopping malls / Office buildings

**Specifications subject to change without notice. 01/2023*

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