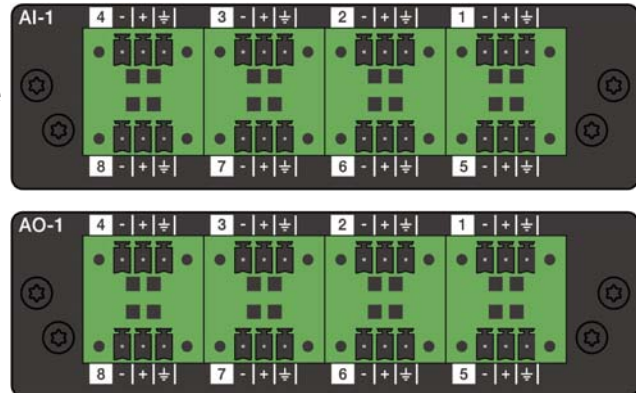


Key Features:

- **118 dB for AO-1, 117 dB for AI-1 Dynamic Range -- for Best Audio Performance**
- **Balanced Inputs and Outputs -- High Common Mode Rejection Prevents Long Cables from Picking Up Interference**
- **Automatic Configuration -- Indication (Message) of Installation and Removal of Modules via IRIS Software**



General Description:

The AO-1 and AI-1 are eight-channel analog audio modules for the NetMax N8000 System Controller. Audio signals are connected via screw-lockable Euro block connectors. A-to-D conversion is taken care of by high performance linear 24-bit converters. Internally the signals are processed in 48-bit word length.

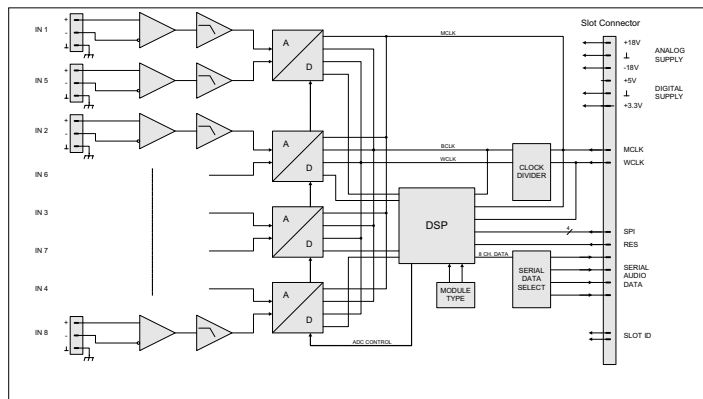
Technical Specifications (AI-1):

Supply Voltage / Current	+3.3 V DC, ± 0.3 V / 35 mA +18 V DC, ± 0.5 V / 360 mA -18 V DC, ± 0.5 V / 105 mA
Audio Inputs	8 x 3-pole Euro block connectors, electronically symmetric
Input Level (Nominal)	+6 dBu / 1.55 V
Input Level (Max. Before Clip)	+21 dBu / 8.7 V
Input Impedance	20 kOhms
Common Mode Rejection	> 70 dB
A/D Conversion	24 Bit, Sigma-Delta, 128 times oversampling
Frequency Response	20 Hz - 20 kHz (-0.5 dB)
Signal to Noise Ratio (A-Weighted)	117 dB typical
THD+N	< 0.005%
Sample Rate	48 kHz
Data Format	24 Bit linear A/D conversion, 48 Bit processing
Signal Delay	1.3958 ms
Operating Temperature Range	0 °C ... 40 °C
Dimensions (W x H x D)	114mm x 33mm x 258.5mm 4.49" x 1.30" x 10.18"
Weight	200 g (0.44 lb)

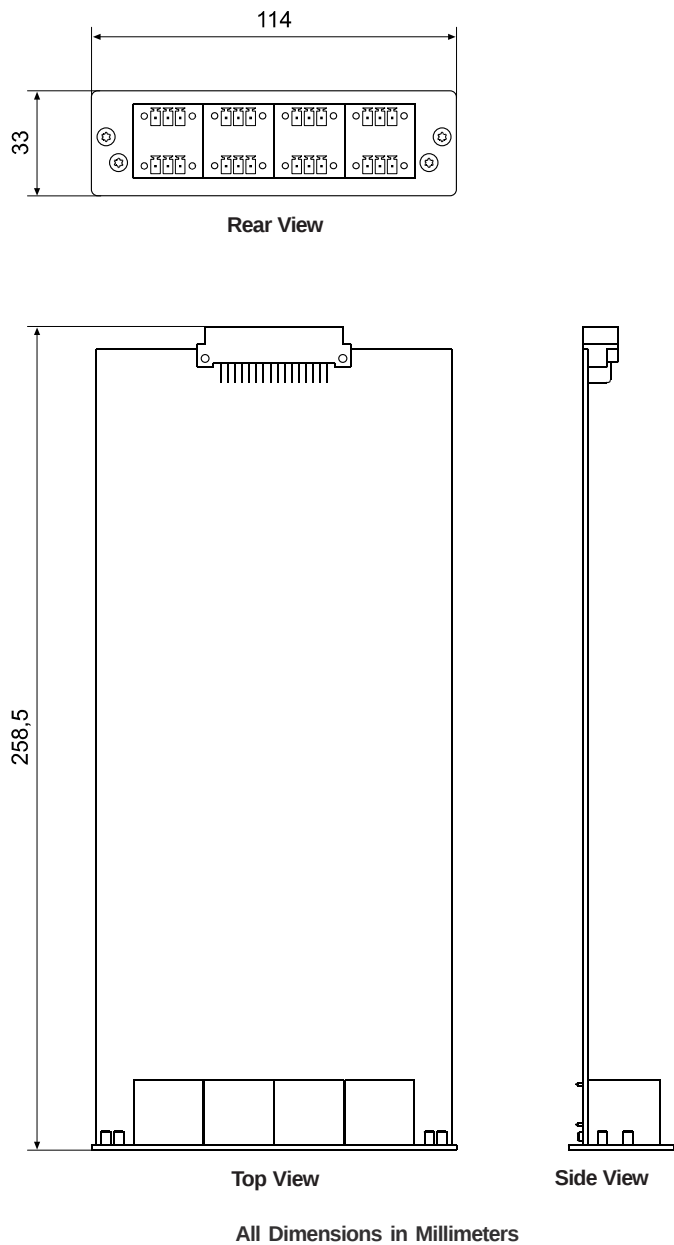
Technical Specifications (AO-1):

Supply Voltage / Current	+3.3 V DC, ± 0.3 V / 140 mA +5 V DC, ± 0.25 V / 190 mA +18 V DC, ± 0.5 V / 270 mA -18 V DC, ± 0.5 V / 160 mA
Audio Inputs	8 x 3-pole Euro block connectors, electronically symmetric
Input Level (Nominal)	+6 dBu / 1.55 V
Input Level (Max. Before Clip)	+21 dBu / 8.7 V
Input Impedance	100 Ohms
Min. Load Impedance	600 Ohms
D/A Conversion	24 Bit, Sigma-Delta, 128 times oversampling
Frequency Response	20 Hz - 20 kHz (-0.5 dB)
Signal to Noise Ratio (A-Weighted)	118 dB typical
THD+N	< 0.005%
Sample Rate	48 kHz
Data Format	24 Bit linear D/A conversion, 48 Bit processing
Signal Delay	646 μ s
Operating Temperature Range	0 °C ... 40 °C
Dimensions (W x H x D)	114mm x 33mm x 258.5mm 4.49" x 1.30" x 10.18"
Weight	260 g (0.57 lb)

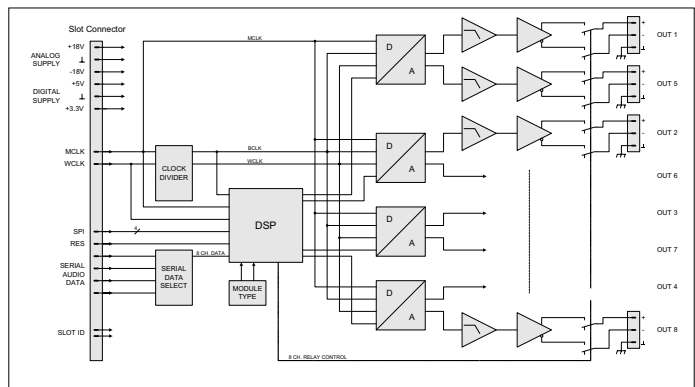
Block Diagram (AI-1):



Dimension Drawings:



Block Diagram (AO-1):



AI-1 Part Number:

AI-1 -- D170324

AO-1 Part Number:

AO-1 -- D170326



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For technical assistance, contact Technical Support at: 866/78AUDIO

Specifications subject to change without notice.