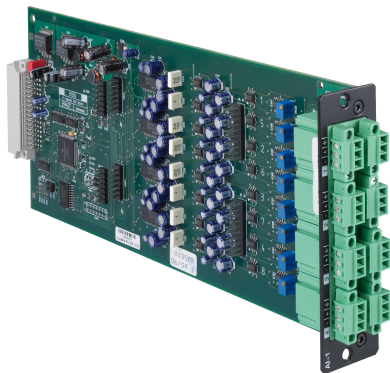


AI-1 Analog line level input module



- 117 dB dynamic range - for best audio performance
- Balanced inputs - high common mode rejection prevents long cables from picking up interference
- Automatic configuration - indication (message) of installation and removal of modules via IRIS-Net software

The AI-1 is an eight-channel analog input module for use in an DYNACORD P 64 system. Audio signals are connected via screw lockable Euroblock 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.

Parts included

Quantity	Component
1	AI-1 module
8	Euroblock connector 3-pole (Phoenix MC 1,5/ 3-STF-3,81, Nr. 1827716)
2	Screw combination TORX M3x6
1	Datasheet

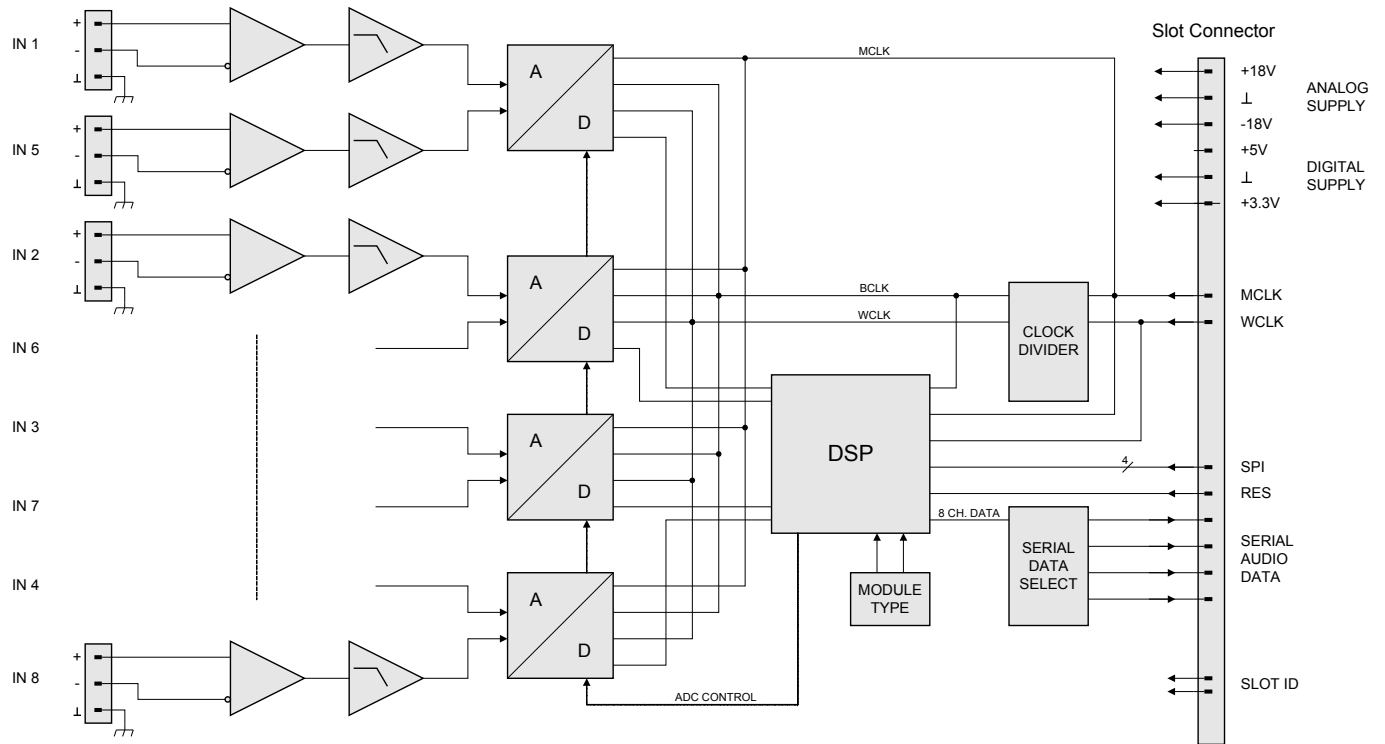
TORX is a registered trademarks of Acument Intellectual Properties, LLC.

Technical specifications

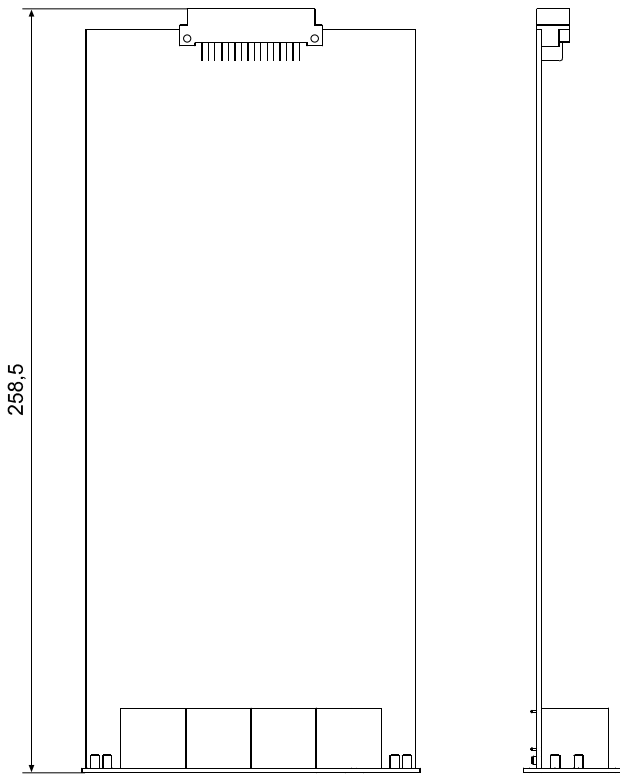
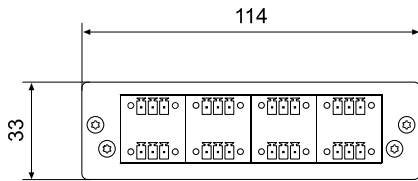
Supply voltage/current	+3.3 V DC, ±0.3 V / 35 mA +18 V DC, ±0.5 V / 360 mA
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	-18 V DC, ±0.5 V / 105 mA
Audio inputs	8 x 3-pole Euroblock connectors, electronically symmetric
Input level (nominal)	+6 dBu / 1.55 V
Input level (max. before clip)	+21 dBu / 8.7 V
Input impedance	20 kΩ
Common mode rejection	> 70 dB
A/D conversion	24 Bit, Sigma-Delta, 128 times oversampling
Frequency response	20–20000 Hz (-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	66 Samples = 1.375 ms at 48 kHz

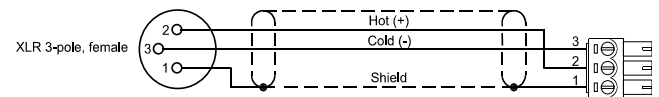
Electromagnetical environment	E1, E2, E3
Operating temperature	0 °C to 40 °C
Product dimensions (Width x Height x Depth)	114 mm x 33 mm x 258.5 mm
Net weight	200 g



Circuit diagram



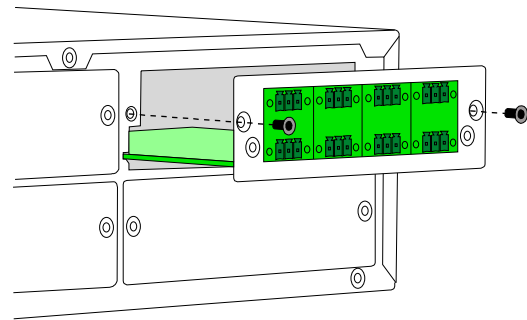
AI-1 Dimensions



Interconnection cord XLR – to – Euro block for AI-1 audio inputs

Installation/configuration notes

1. Turn off the power of the unit and pull the mains plug.
2. Remove the blind on the rear panel (two screws).
3. Insert the AI-1 module in the desired slot and secure it with two screws on the rear panel.
4. Plug in the mains cord and turn the unit's power on.
5. The unit automatically recognizes the AI-1 module. Eight additional audio outputs can now be used.



Ordering information

AI-1 Analog line level input module
 8 Channel analog line level input card, 100 MIPS DSP onboard
 Order number **AI-1**

Germany:

Bosch Sicherheitssysteme GmbH
 Robert-Bosch-Ring 5
 85630 Grasbrunn
 Germany

Bosch Security Systems, Inc.
 130 Perinton Parkway
 Fairport, NY 14450
 USA

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