

ARTISAN®
TECHNOLOGY GROUP

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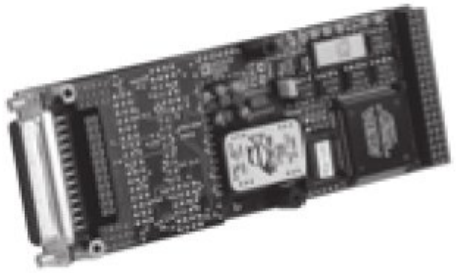
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M36 – 8/16 Analog Inputs

- **8/16 current or voltage inputs**
- **16 bits resolution**
- **10 µs acquisition/conversion time**
- **Unipolar/bipolar software-selectable**
- **Auto-sampling system**
- **Communication via dual-ported RAM**
- **External triggering**
- **Optical isolation**
- **On-board signal conditioning with SA-Adapter™**



A/D Conversion

- 16 bits @ 10µs
- Precision: ±2 LSB, ±0.1% typ.
- Noise: ±3 LSB of mean value, delta = 0.8
- Optically isolated (500V isolation)
- Programmable gain factor of 1, 2, 4 or 8 (factor 16 by hardware jumpering)
- Offset max. 4 LSB (25°C)
- Full-scale error max. 4 LSB (25°C)
- Software-selectable unipolar or bipolar operation
- Sample and hold
- Autoincrement of channel number

Input Signal Conditioning with AD01

- Voltage or Current Inputs
- 16 analog inputs, single-ended
- High input voltage tolerance
- Cross-talk less than 56db
- Low-pass filter 1kHz
- Voltage Measurement
- Precision: ±0.5%
- Voltage max.: ±15V
- Voltage full scale: ±10V
- Input resistance: 100 kOhm, ±10%
- Current Measurement
- Precision: ±1%
- Current max.: ±25mA
- Current full scale: ±20mA, UA = ±1.25V
- Load resistance: 62.5 Ohm, ±0.1%

Input Signal Conditioning with AD02

- Voltage or Current Inputs
- 8 analog inputs, differential
- High common mode range ±200V
- Cross-talk less than 60db
- Low-pass filter 3kHz
- Voltage Measurement
- Precision: ±0.5%
- Voltage max.: ±200V (common mode)
- Voltage full scale: ±10V
- Input resistance: 400 kOhm typ.
- Current Measurement
- Precision: ±1%
- Current max.: ±25mA
- Voltage max. to IGND: ±200V
- Input resistance: 62.5 Ohm, ±0.1%

Miscellaneous

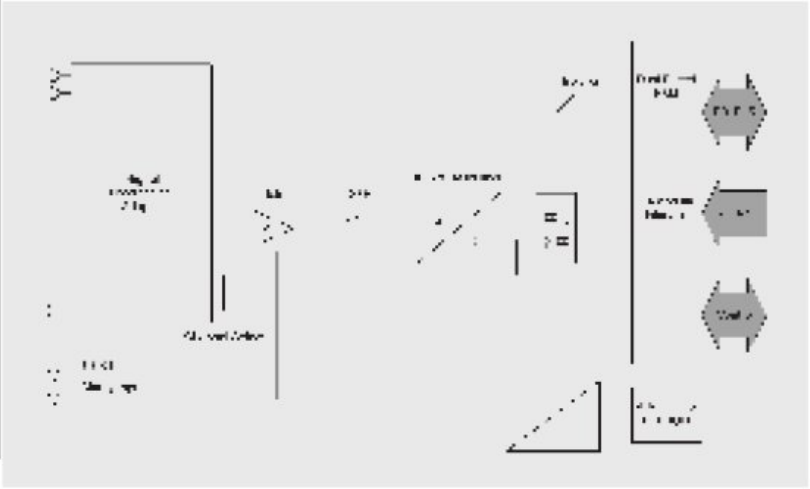
- External trigger (isolated, rising-edge sensitive)
- External binary input

Peripheral Connections

- Via front panel on a shielded 25-pin D-Sub receptacle connector
- Via carrier board (rear I/O)

M-Module™ Characteristics

- A08, D16, INTA, IDENT



Electrical Specifications

- Isolation voltage:
- 500V DC between isolated side and digital side
- 180V DC between the channels
- Voltage between the connector shield and isolated ground is limited to 180V using a varistor; AC coupling between connector shield and isolated ground through 47nF capacitor
- Supply voltages/power consumption:
- +5V (4.85V..5.25V), 110mA typ. (without DC/DC converter), 580mA (with DC/DC), 990mA (with DC/DC and AD01)
- External supply voltages (without on-board DC/DC converter and adapter): +15V: 14.5V..15.5V, +60mA; -15V: 14.5V..15.5V, -32mA
- MTBF: 312,000h @ 50°C (derived from MIL-HDBK-217F)

Mechanical Specifications

- Dimensions: conforming to M-Module™ Standard
- Weight (incl. adapter): 102g

Environmental Specifications

- Temperature range (operation):
- 0..+60°C
- Industrial temperature range on request
- Airflow: min. 10m³/h
- Temperature range (storage): -40..+85°C
- Relative humidity range (operation): max. 95% non-condensing
- Relative humidity range (storage): max. 95% non-condensing
- Altitude: -300m to + 3,000m
- Shock: 15g/11ms
- Bump: 10g/16ms
- Vibration (sinusoidal): 2g/10..150Hz
- Conformal coating on request

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

EMC

- Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst) with regard to CE conformity

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