

Mikro Elektronik M31

## 16 Binary Inputs M-Module



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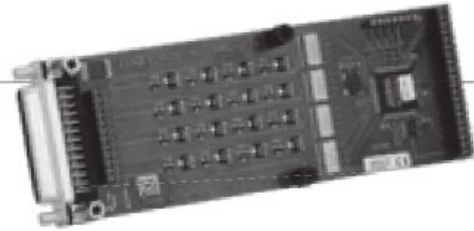
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## M32 – 16 Binary Inputs

- 16 inputs 0..155V
- Constant current inputs
- Debouncing circuit
- Interrupt generation
- Load on supply voltage

- Optical isolation
- -40 to +85°C with qualified components



### Binary Inputs

- Input load on supply voltage
- FET constant current source inputs
- Input voltage ranges:
  - 5..40V; 2.5..3.5mA (high level)
  - 5..180V (M-Module™ version for extended temperature range)
  - 0..1V; 0..0.2mA (low level)

- Input clamping voltage: 39V, ±15%
- Switching time for input change: 3μs typ.
- Debouncing Time**
  - 14ms (defined by PLD programming)
- Miscellaneous**
  - Debouncing circuit
  - Interrupt generation with maskable interrupt

### Peripheral Connections

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

### M-Module™ Characteristics

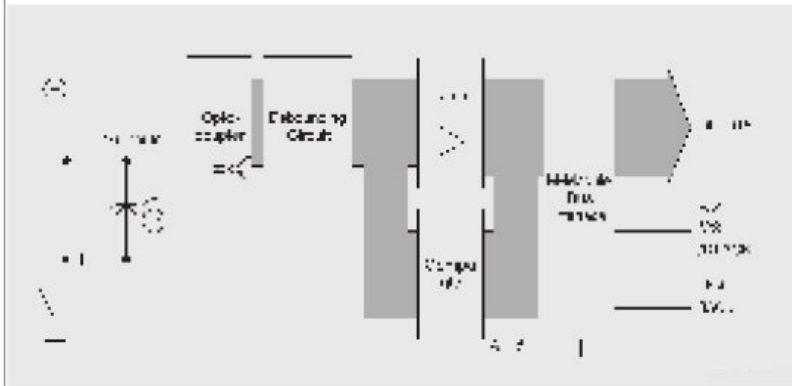
- A08, D16, INTA, INTB, IDENT

### Electrical Specifications

- Isolation voltage:
  - 500V DC between isolated side and digital side
  - 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 voltage/power consumption: +5V (4.85V..5.25V), 50mA typ.
- MTBF: 300,000h @ 50°C (derived from MIL-HDBK-217F)

### Mechanical Specifications

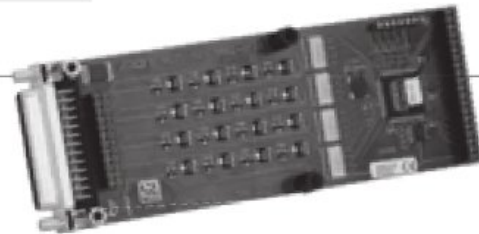
- Dimensions: conforming to M-Module™ Standard
- Weight: 67.5g



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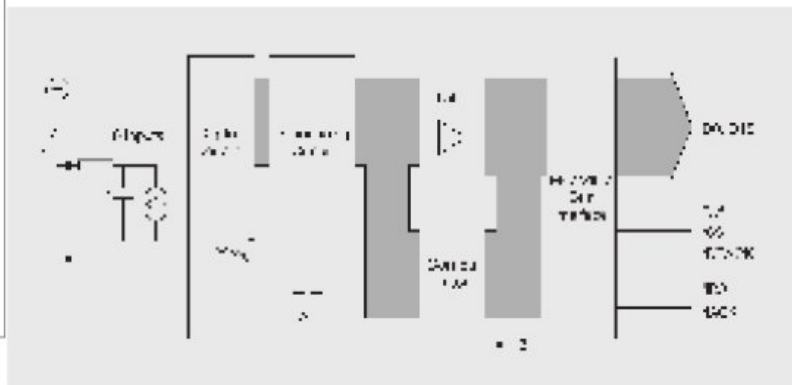
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### Environmental Specifications

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



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