

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
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We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

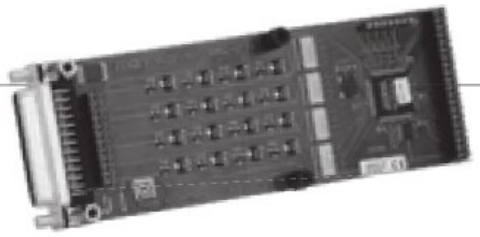
- Critical and expedited services
- In stock / Ready-to-ship
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Expert team | Trust guarantee | 100% satisfaction

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M32 – 16 Binary Inputs

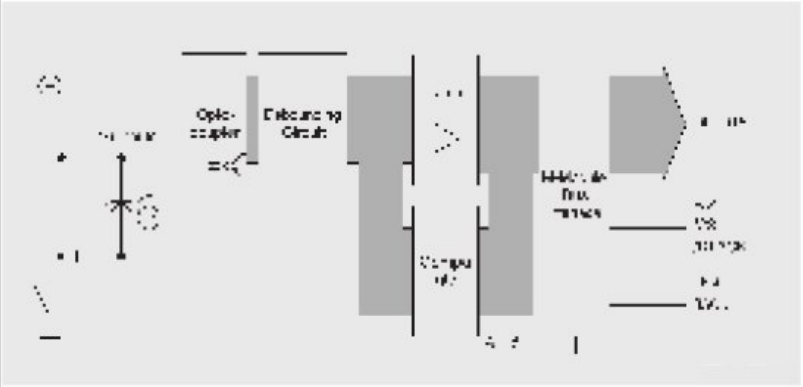


- **16 inputs 0..155V**
- **Constant current inputs**
- **Debouncing circuit**
- **Interrupt generation**
- **Load on supply voltage**
- **Optical isolation**
- **-40 to +85°C with qualified components**

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



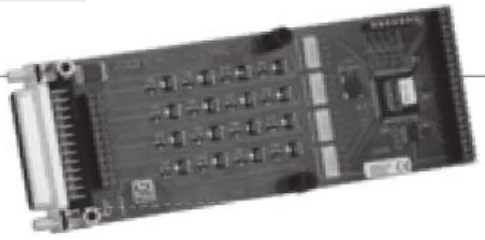
Peripheral Connections
- Via front panel on a shielded 25-pin D-Sub receptacle connector
- Via carrier board (rear I/O)

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

M31 – 16 Binary Inputs



- **16 inputs 0..155V**
- **Constant current inputs**
- **Debouncing circuit**
- **Interrupt generation**
- **Load on ground**
- **Optical isolation**
- **-40 to +85°C with qualified components**

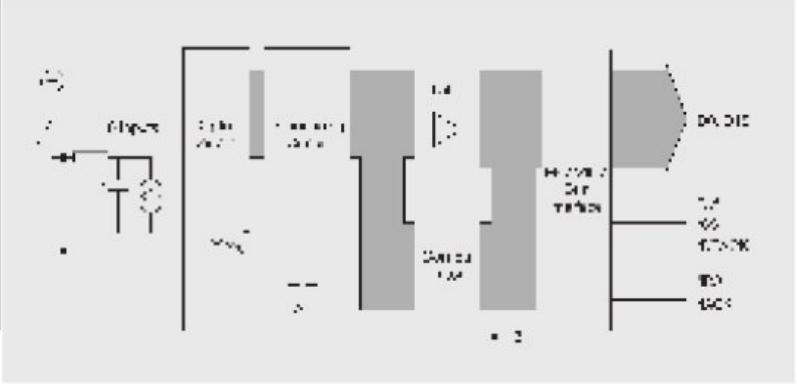
Binary Inputs
- Input load on ground
- FET constant current source inputs
- Input voltages and currents:
  - 5..40V; 2.5..3.5mA (high level)
  - 5..180V (M-Module™ version for extended temperature range)
  - 0..1V; 0..0.2mA (low level)
- Switching time for input change: 3µs typ.

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



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- MTBF: 300,000h @ 50°C (derived from MIL-HDBK-217F)

Mechanical Specifications
- Dimensions: conform. to M-Module™ Standard
- Weight: 67.5g

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

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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