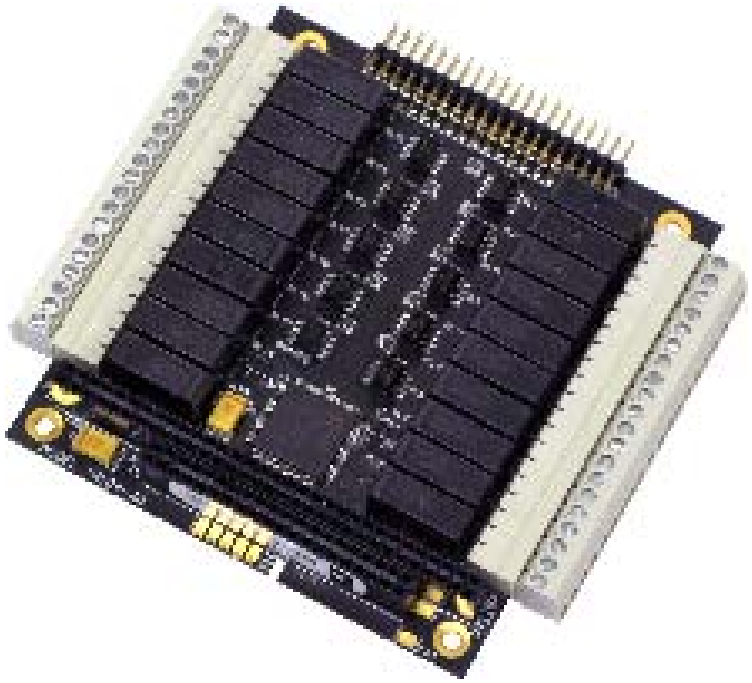
IR104

Industrial Relay Board



information

Initially developed for industrial applications, the rugged IR-104 was conceived in the PC/104 format as a high-density I/O module for applications requiring isolation between the computer and its external switches. This versatile module features 20 optoisolated digital inputs boasting a 3V to 24V range AC or DC. The 20 relay outputs are housed on an easily detachable connector with a rating of 5A @ 250V AC and 30V DC.

This lightweight board features a compact 3.550" x 3.775" footprint while exceeding industry standards with a 0.492" maximum component height. With an impressive operating temperature range of –25 to +70 degrees Fahrenheit, this versatile relay board is easily adapted to any number of unique applications.

features

- 20 optoisolated inputs
- Input range: 3V to 24V AC or DC input
- Output rating: 5A @ 250V AC and 30V DC
- Multiple IR104 boards can be stacked
- Only 4.48oz / 127.12g
- I/O access through I/O mapped

specifications

General

- 20 Optoisolated inputs
- Input voltage 3-24V AD or AC
- Input impedance 2.8KΩ
- Outputs: 20 SPST relays
- Max voltage 150VDC, 250 VAC
- Max current 5A AC or DC (30VDC max)
- Max power 150W, 1250VA
- Contact resistance 30mΩ initially
- UL rating 5A/30VDC or 250VAC 1/10HP 120VAC
- Lifetime 20,000,000 cycles mechanical 100,000 cycles @ full power
- Actuation time 6ms operate, 3ms release

I/O connectors

- Inputs: 2x20 pin header, .1" spacing
- Outputs: Dual 1x20 detachable screw terminals
- Power 5V @ 110mA typ (all relays off)

Physical

- Operating Temp -25 to +70°
- Size 3.550" x 3.775"
- 0.492" max component height
- Weight 3.2 oz/90g

Ordering Information

this product is manufactured by:

TRI-M ENGINEERING

Part Number	Description
IR104	Industrial Relay Board

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TRI-M SYSTEMS