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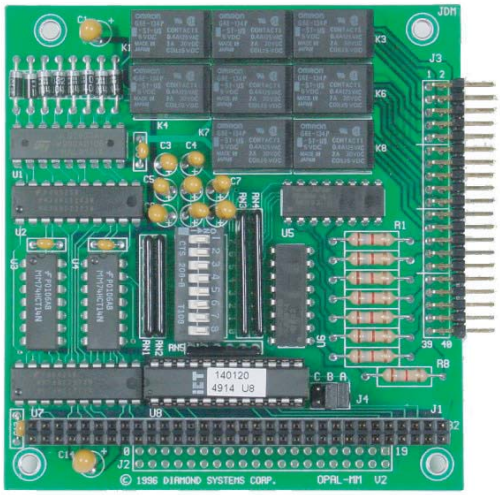
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DIAMOND SYSTEMS CORPORATION

# OPAL-MM

## 8 optoisolated Inputs + 8 relays



- 8 optoisolated digital inputs
- 8 spot relay (form C) outputs
- DC inputs 3 - 24V
- AC inputs 3 - 24V, 40Hz or greater
- Long lifetime relays (10,000,000 operations)
- 500VAC or DC isolation between board and signals

## DESCRIPTION

Opal-MM features 8 optoisolated digital inputs and 8 relays. The inputs accept signals ranging from 3-28V AC or DC. An on-board input filter circuit allows the sensing of AC inputs with frequencies of 40Hz or higher. This filter is individually selectable for each input channel.

The 8 relays are non-latching type SPDT (form C). Each relay has 3 contacts: Common (C), Normally Open (NO), and Normally Closed (NC). For safety and reliability, all relays retain their power-off state (C connected to NC) during power-up and return to it during system reset. The relays can switch both AC and DC voltages. Relay lifetime is 1,000,000 operations minimum at rated DC load. Quick actuation time (5ms operate or release), break-before-make operation, and bifurcated contacts ensure reliable operation even with low-level signals.

Opal-MM provides 500V DC or AC isolation between all I/O connections and the rest of the board. This specification does not apply between I/O channels, although all channels are isolated from each other as well. In many applications, the I/O points share a common power or ground line and require only isolation between the I/O lines as a group and the control circuitry.

## ORDERING INFORMATION

| Part No. | Description |
|---|---|
| **OPMM-XT** | 8 relays, 8 optocouplers |

## SPECIFICATIONS

| Feature | Opal-MM |
|---|---|
| **# Relays** | 8 |
| **Relay type** | SPDT (form C) |
| **Max DC Power** | 30VDC / 1A |
| **Max AC Power** | 125VAC / 0.1 resistive<br>125VAC / 0.2 inductive |
| **Max Load** | 30W / 50VA |
| **Max Op Voltage** | 220VDC, 250VAC |
| **Contact Resistance** | 50mΩ max |
| **Relay lifetime** | 1,000,000 operations |
| **Actuation Time** | 5ms max, operate / release |
| **Opto inputs** | 8 |
| **Input Voltage** | 3V-28VDC |
| **Input impedance** | 1.8KΩ min |
| **Dimensions** | 3.55" x 3.775" (90mm x 96mm) |
| **Input Power** | +5VDC±10% |
| **Operating temp** | -40°C to +85°C |
| **Weight** | 3.0oz / 85g |

## FOR MORE INFORMATION

Diamond Systems Corporation
1255 Terra Bella Avenue
Mountain View, CA 94043
Tel: 650-810-2500
Fax: 650-810-2525
techinfo@diamondsystems.com

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