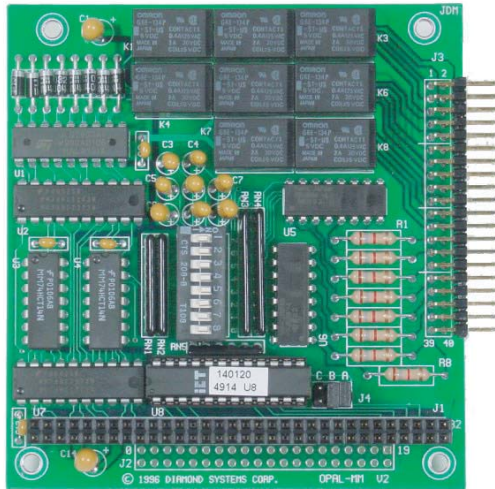


OPAL-MM

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.

SPECIFICATIONS

Feature	Opal-MM
# Relays	8
Relay type	SPDT (form C)
Max DC Power	30VDC / 1A
Max AC Power	125VAC / 0.1 resistive 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

ORDERING INFORMATION

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

Diamond Point International (Europe) Ltd

Suite 13, Ashford House, Beaufort Court
 Sir Thomas Longley Road, Rochester, Kent, ME2 4FA, UK
 Phone 01634 300900 - Fax 01634 722398 - Email sales@dpie.com – Web www.dpie.com www.dpieshop.com



www.dpie.com