

# **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-beforemake 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	
# Relays 8	
" Itolayo	
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	
<b>Dimensions</b> 3.55" x 3.775" (90mm x	
96mm)	
Input Power +5VDC±10%	
Operating temp -40°C to +85°C	
<b>Weight</b> 3.0oz / 85g	

#### FOR MORE INFORMATION

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