

# R104-16DO User Guide

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## A) Digital Output Control

The 16 relays are accessed through I/O memory writes. The relays are grouped in sets of four, and the group I/O memory address is an offset from the base decode address. Relays are grouped as follows:

Group 1: Outputs DO1 to DO4	I/O address = Base Address
Group 2: Outputs DO5 to DO8	I/O address = Base Address + 1
Group 3: Outputs DO9 to DO12	I/O address = Base Address + 2
Group 4: Outputs DO13 to DO16	I/O address = Base Address + 3

The relays are bit mapped to the lower four data lines in each group as follows:

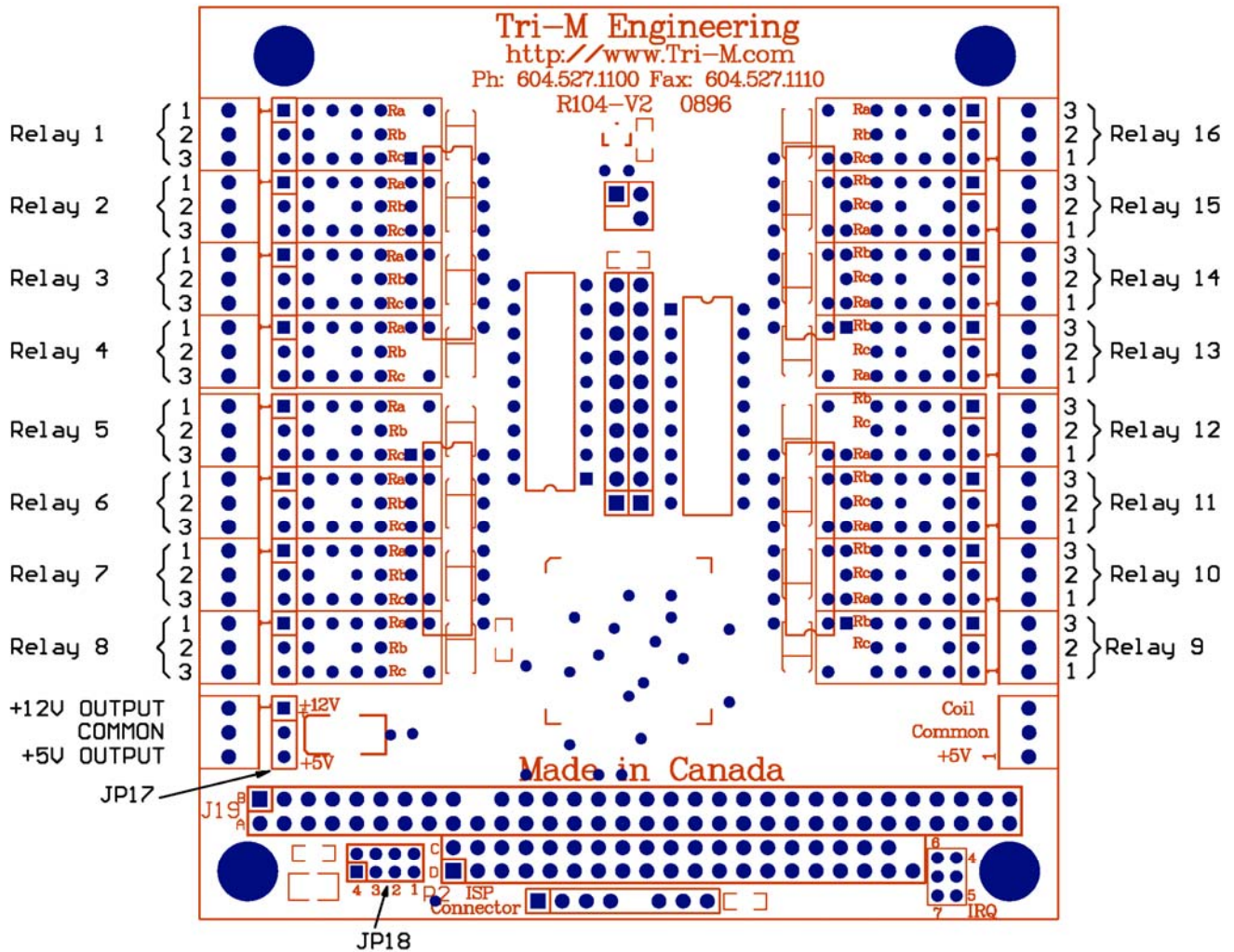
Relay	SD3	SD2	SD1	SD0
Group 1	Relay4	Relay3	Relay2	Relay1
Group 2	Relay8	Relay7	Relay6	Relay5
Group 3	Relay12	Relay11	Relay10	Relay9
Group 4	Relay16	Relay15	Relay14	Relay13

## B) Base Address Setting

There are four decode base addresses, which are jumper selectable from the address select block J18.

Base Address	J18-1	J18-2
240H	Jumper Not Installed	Jumper Not Installed
260H	Jumper Installed	Jumper Not Installed
280H	Jumper Not Installed	Jumper Installed
300H	Jumper Installed	Jumper Installed

# R104-16D0 Digital I/O Relay Board



### Relay Board I/O Address Selection

JP18	1	2
ADDR 240H	OFF	OFF
ADDR 260H	ON	OFF
ADDR 280H	OFF	ON
ADDR 300H	ON	ON

