MARCOM20170101-OI

ROMEX

**EMBEDDED TEST SOLUTIONS**

overton INSTRUMENTS

# DIGITAL INPUT/OUTPUT

Using general purpose Digital I/O instruments to build custom test equipment is a common, yet vitally important practice for most Test Engineers. On the input side, a myriad of logic signals are verified (including timing clocks, trigger pulses, data bits, bytes and words). Likewise, a plethora of digital outputs are designed to control, stimulate, emulate and manipulate logic circuits.

With the **Digital Input/Output** collection from OI, test developers have discovered a unique array of practical solutions that are easy-to-use, offer huge flexibility and comes with a price tag that is just a fraction of the cost for comparable PC-based test instruments.

To learn how simple our DIO products are to use and apply, just go to our website and request a demo unit for a free 10-day trial period.

## SPECIAL BENEFITS

- *Wide assortment of Digital I/O solutions*
- *Easy access to instrument resources*
- *Compact size, module just 2.50" x 2.75"*
- *Embedded or USB Interface*
- *Compatible with LabView, LabWindows, VB, HP-Vee, C/C++, Python & many others*
- *Low cost, Oi modules can be as much as 60% less then traditional PC-based test instruments*
- *Use to build Smart Test Fixtures, create custom desktop test equipment or support larger ATE test systems*

### General Purpose DIO

The DIO-MATE and DIO-MATEII offer 24 & 48 bits (respectively). Programming allows setting for port direction and logic level (for both individual bits or bytes). You can also enable weak pull-ups on the inputs and configure interrupt options. Access to the hardware is made available thru a convenient set of screw terminals connectors and consolidated within a single header connector.

### Isolated DIO

The OPTO-MATE module offer16 bits (8 input, 8 output), of isolated DIO. The OPTO-MATE uses 16 opto-coupler devices to perform circuit isolation. Access to the hardware is made available thru a convenient set of screw terminals connectors and consolidated within a single header connector.

### Extended DIO

More Bits - More Bytes - More DIO… The EIO-MATE module provides up to 96 bits of DIO. Programming allows setting for port direction and logic state (for both individual bits or bytes). You can also enable weak pull-ups on the inputs and configure interrupt options. Access to the hardware is made available thru a convenient set of consolidated header connectors.

## DIO-MATE
24-Bit Digital I/O Module

- *24 digital I/O bits, TTL*
- *Each bit is dependently programmable*
- *Each bit can source/sink ±25mA*
- *Easy screw terminal connections or single consolidated header*

## DIO-MATEII
48-Bit Digital I/O Module

- *48 digital I/O bits, TTL*
- *Each bit is dependently programmable*
- *Each bit can source/sink ±25mA*
- *Easy screw terminal connections or single consolidated header*

## OPTO-MATE
16-Bit Isolated DIO Module

- *16 opto-couplers (8 inputs, 8 outputs)*
- *Isolation to 5000vrms*
- *Output drive, 80V@50ma*
- *Input voltage, 3 to 30Vdc*
- *Easy screw terminal connections or single consolidated header*

## EIO-MATE
96-Bit, Extended DIO Module

- *96 digital I/O bits, TTL*
- *Each bit is dependently programmable*
- *Each bit can source/sink ±25mA*
- *Access hardware thru three 34-pin header connectors*

## ORDER INFO

| | | | |
|---|---|---|---|
| DIO-MATE,<br>24-Bit Digital I/O Module<br>**ETS-3010-00** | DIO-MATEII,<br>24-Bit Digital I/O Module<br>**ETS-3030-00** | OPTO-MATE,<br>16-Bit Isolated DIO Module<br>**ETS-3020-00** | EIO-MATE,<br>128-Bit Extended DIO Module<br>**ETS-3040-00** |
| DIO-MATE,<br>with optional USB Interface<br>**ETS-3011-00** | DIO-MATEII,<br>with optional USB Interface<br>**ETS-3031-00** | OPTO-MATE,<br>with optional USB Interface<br>**ETS-3021-00** | QDM-MATE,<br>with optional USB Interface<br>**ETS-3041-00** |

**Romex BV, Autoweg 26, 3911TK, Rhenen, The Netherlands Phone: +31(0)317398787 email: info@romex.nl www.romex.nl/test**