

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 Lab-View, LabWindows, VB, HP-Vee, C/C++, Python & many others*
- *Low cost, OI modules can be as much as 60% less than 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 offer 16 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 $\pm 25\text{mA}$
- 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 $\pm 25\text{mA}$
- 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 $\pm 25\text{mA}$
- Access hardware thru three 34-pin header connectors

ORDER INFO

DIO-MATE,
24-Bit Digital I/O Module
ETS-3010-00

DIO-MATE,
with optional USB Interface
ETS-3011-00

DIO-MATEII,
24-Bit Digital I/O Module
ETS-3030-00

DIO-MATEII,
with optional USB Interface
ETS-3031-00

OPTO-MATE,
16-Bit Isolated DIO Module
ETS-3020-00

OPTO-MATE,
with optional USB Interface
ETS-3021-00

EIO-MATE,
128-Bit Extended DIO Module
ETS-3040-00

QDM-MATE,
with optional USB Interface
ETS-3041-00