

EMBEDDED TEST SOLUTIONS

ANALOG CONVERSION

For many Test Engineers, the **Analog Conversion** collection from Oi, represents a major breakthrough for building what we call “*Smart Test Fixtures*”. In such applications, the need to control and acquire analog data is critically important. Today’s sophisticated test fixtures are called upon to measure a broad range of electrical parameters (including temperature, pressure, LED light, sound & motion, vibration, distance, speed, orientation and the list goes on).

Whether you need to read an analog signal, or set an output voltage, the Analog Conversion products’ offer a unique set of solutions that will do the job easier, quicker, faster and for far less cost. What could be simpler - just select the Oi module you need, install the sensor/s you want, plug-in the USB interface, write a little code and that’s it, you are up and running with minimal effort.

SPECIAL BENEFITS

- *Wide array of analog conversion 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*
- *Enhance Mechanical Test Fixtures, create custom desktop test equipment or support larger ATE test systems*

Multifunction DAQ Module

The innovative CHECK-MATE and CHECK-MATE+ delivers a triple threat. Each module combines 8 analog inputs, 1 analog output and 8 digital input/output bits. The analog inputs are 8-bit resolution (16-bits for the CHECK-MATE+), and includes 4 programmable ranges (0-5Vdc, ±5Vdc, 0-10Vdc & ±10Vdc). The analog output provides 12-bit resolution and 2 programmable ranges (0-10Vdc, ±10Vdc). The 8 digital bits are fully programmable.

Analog Data Acquisition

The DAQ-MATE module provides 16 *very fast* analog input channels (100Ksps). Each channel has 12-bit resolution and offers 4 programmable ranges (0-5Vdc, ±5Vdc, 0-10Vdc & ±10Vdc).

Voltage Control Solutions

The QDM-MATE module provides 4 independent DAC output channels. Each channel has 12-bit resolution and offers 2 programmable ranges (0-10Vdc, ±10Vdc).

CHECK-MATE

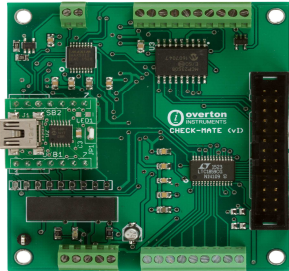
Multifunction DAQ Module



- 8-CH, 12-bit A/D with 100ksps sample rate, programmable inputs (8) single-ended or (4) differential
- 1-CH, 12-bit D/A (unipolar/bipolar modes)
- 8 digital input/output lines, independently programmable

CHECK-MATE+

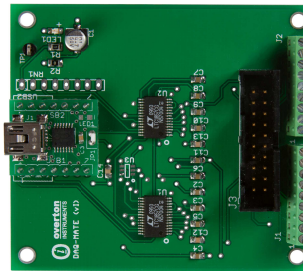
Multifunction DAQ Module



- 8-CH, 16-bit A/D with 100ksps sample rate, programmable inputs (16) single-ended or (8) differential
- 1-CH, 12-bit D/A (unipolar/bipolar modes) with ±30mA buffered output
- 8 digital input/output lines, independently programmable

DAQ-MATE

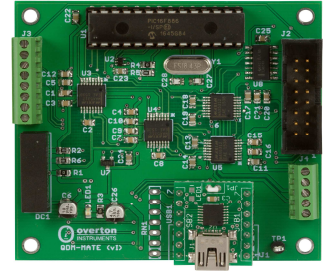
16-CH DAQ Module



- 16 12-bit A/D channels
- 100Ksps sample rate
- Programmable inputs (16 SE, 8 Differential)
- 4 Programmable Input Ranges (0-5V, 0-10V, ±5V and ±10V)

QDM-MATE

Quad DAC Module



- 4 independent DAC channels
- 12-bit resolution
- 2 modes, unipolar 0-10Vdc & bipolar ±10V

ORDER INFO

CHECK-MATE,
Multifunction DAQ Module
ETS-2010-00

CHECK-MATE,
with optional USB Interface
ETS-2011-00

CHECK-MATE+,
Multifunction DAQ Module
ETS-2050-00

CHECK-MATE+,
with optional USB Interface
ETS-2051-00

DAQ-MATE,
16-CH Data Acquisition Module
ETS-2020-00

DAQ-MATE,
with optional USB Interface
ETS-2021-00

QDM-MATE,
Quad DAC Module
ETS-2040-00

QDM-MATE,
with optional USB Interface
ETS-2041-00