ROMEX

EMBEDDED TEST SOLUTIONS

overton INSTRUMENTS

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 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*
- *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).

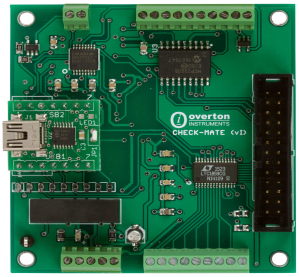
Voltage Control Solutions

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

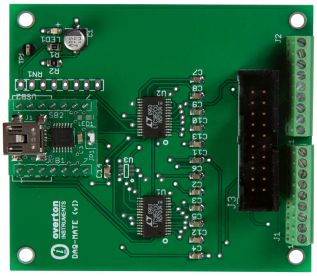
- *8-CH, 12-bit A/D with 100ksps sample rate, programmable inputs (8) single-ended or (4) differential*
- *1-CH, 12-bit D/A (unipolar/ bipolar modes)*
- *8 digital input/output lines, independently programmable*

CHECK-MATE+
Multifunction DAQ Module



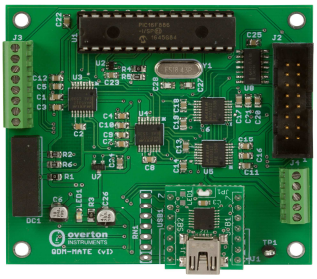
- *8-CH, 16-bit A/D with 100ksps sample rate, programmable inputs (16) single-ended or (8) differential*
- *1-CH, 12-bit D/A (unipolar/ bipolar modes) with ±30mA buffered output*
- *8 digital input/output lines, independently programmable*

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	CHECK-MATE+	DAQ-MATE	QDM-MATE
Multifunction DAQ Module **ETS-2010-00**	Multifunction DAQ Module **ETS-2050-00**	16-CH Data Acquisition Module **ETS-2020-00**	Quad DAC Module **ETS-2040-00**
with optional USB Interface **ETS-2011-00**	with optional USB Interface **ETS-2051-00**	with optional USB Interface **ETS-2021-00**	with optional USB Interface **ETS-2041-00**

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