

EMBEDDED TEST SOLUTIONS



DATA COMMUNICATIONS

When building custom test & measurement equipment, assuring data flows correctly from device-A to device-B is vitally important, and typically involves the use of several standard communication interfaces (i.e., RS232, USB, GPIB and others).

The **DATA COMMUNICATIONS** collection from OI, offer test developers an impressive selection 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 more about how our unique communications products can benefit your next test development project, just go to the OI website and request a demo unit for a free 10-day trial period.

SPECIAL BENEFITS

- *Great selection of standard data communications 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*

Timeless RS232

The COM-MATE module (shown below), supplies up to 4 standard RS232C serial communications ports. The unit is driven by a fast USB 2.0 bridge chip, which can support data rates up to 760bps. Use the COM-MATE module to communicate with multiple DUT's, control external test equipment or support other peripherals (i.e., Bar-Code Scanners and Printers).

USB Central

The HUB-MATE is a special 7-port USB 2.0 compliant hub module, that is designed to provide seamless connectivity. Simply install the HUB-MATE inside the base of a test fixture, and the external Host PC is instantly granted access to multiple OI instrument modules.

Instrument Bus Interface

The GPIB-MATE module is a high-performance GPIB interface that is fully IEEE 488.1 compatible. The unit can perform as a basic IEEE 488 talker, listener and provide standard controller functions (which allow connection to up to 15 GPIB instruments).

COM-MATE

Quad Port RS232 COM Module



- *Up to 4 RS232C Com Ports*
- *Up to 760K baud rate*
- *Programmable handshaking, protocols and interrupts, CTS & RTS controls*
- *LED's indicate Tx & Rx data activity for each port*

HUB-MATE

7-Port USB Hub Module



- *Up to 7 USB 2.0 Ports*
- *All ports support full & low speed operation*
- *Power switching and overcurrent protection*
- *Support suspend and resume operations*

GPIB-MATE

GPIB Controller Module



- *Fully IEEE 488. 1 compatible*
- *Standard OI-BUS interface or optional USB 2.0 interface*
- *Bus powered*



New Product, Under Development

ORDER INFO

COM-MATE,
Quad Port RS-232C Module
ETS-7010-00

COM-MATE,
Dual Port RS-232C Module
ETS-7020-00

HUB-MATE,
7-Port USB Hub Module
ETS-7110-00

HUB-MATE,
4-Port USB Hub Module
ETS-7120-00

GPIB-MATE,
GPIB Controller Module
ETS-7210-00

GPIB-MATE,
with optional USB Interface
ETS-7211-00

HUB-MATE, SAMPLE APPLICATION

MARCOM20161111-01

The diagram below illustrates the fundamental beauty of the ETS Series, EMBEDDED TEST SOLUTIONS' from Overton Instruments (Oi). The new HUB-MATE is a unique 7 port USB Hub unit that gives an external Host PC full access and control over a diverse combination of (Oi) instrument modules, traditional test equipment and other support peripherals. Like all ETS Series' products, the HUB-MATE conforms to a standard board size, just 2.50" x 2.75" square. Where limited desk space was once a critical factor in Manufacturing, now Test Engineers can build unlimited test & measurement capabilities right into the base of a typical Mechanical Test Fixture.



Mechanical Test Fixtures

