

Switching and I/O Cards

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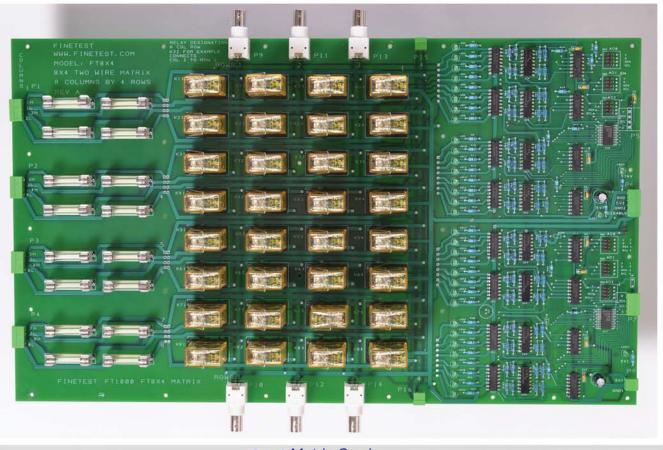


Functional ATE & Power Supply Testers

Military and Aerospace Test Systems
Functional ATE Systems
Power Supply Test Systems
Hi-Pot Test Systems
ESS / Burn-In / Vibration Monitoring Systems
Manual Test Systems
Test Fixtures and ITAs
Box Builds and Sub-Assemblies
Switching and I/O Cards
Custom Cabinets and Accessories

FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 569-6189 Fax: (386) 446-0463 email: sales@finetest.com

8x4 2-Wire Matrix Card



8 x 4 Matrix Card

Features:

The 8 two-wire Input Columns on the left may be connected to

any of 4 Output Rows (3 BNCs and 1 Header Connector) at top and bottom of the board..

Typical application connects the 3 BNCs to an Oscilliscope, and the Header to a DMM.

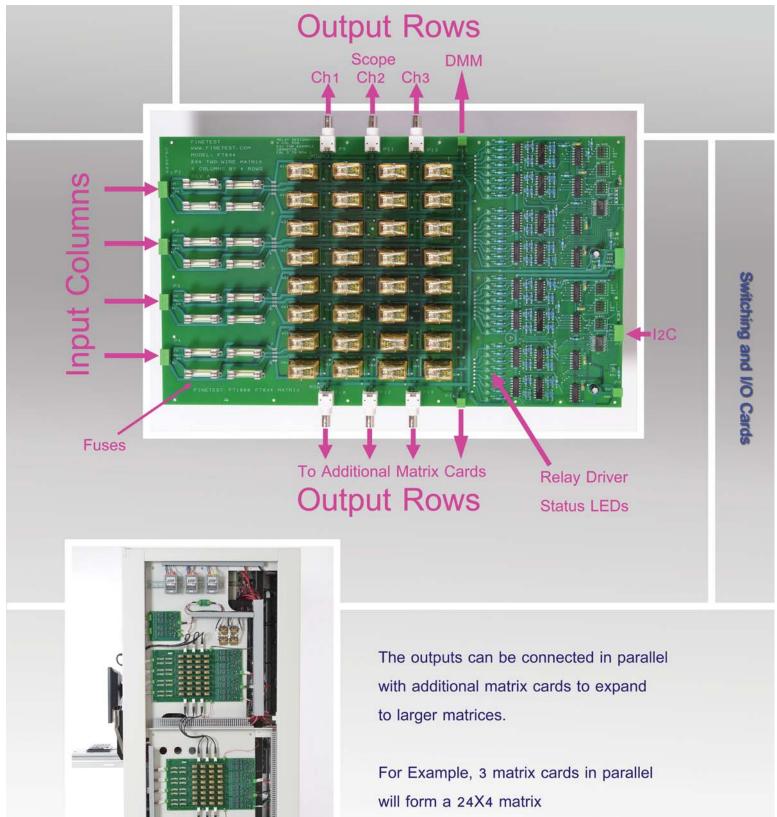
All Inputs are fused on the high and low lines.

All relays have built-in protective diode and status LED.

All relay drivers have status LED for ease of checkout.

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.





3 Matrix cards configured as a 24x4

as shown in the photo to the left.



16x1 2-Wire 5A Multiplexer Card



16 x 1 Mux Card

Features:

Any one of the 16 two-wire Input Columns on the left may be connected to

the Output on the Header Connectors at top and bottom of the board.

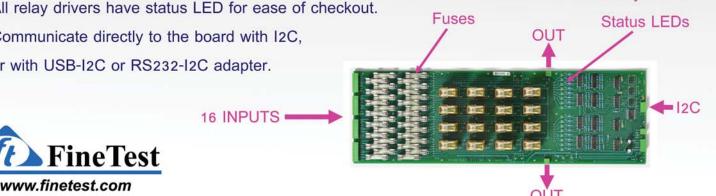
All Inputs are fused on the high and low lines.

All relays have built-in protective diode and status LED.

All relay drivers have status LED for ease of checkout.

Communicate directly to the board with I2C,

or with USB-I2C or RS232-I2C adapter.



Relay Driver

16 General Purpose Form-A 10A Relay Card



16 General Purpose Relay Card

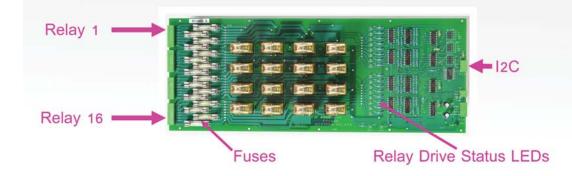
Features:

16 Form A Relays Rated for 10A each.

All Inputs are fused and have built-in protective diode and status LED.

All relay drivers have status LED for ease of checkout.

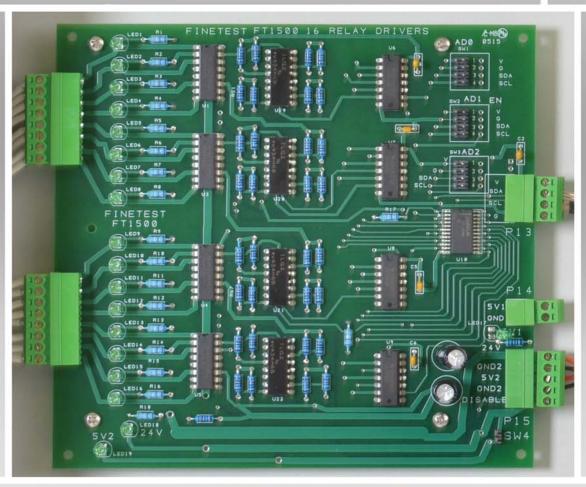
Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.





Switching and I/O Cards

Switching and I/O Cards



Features:

16 Channel Relay Driver Card

16 Optically Isolated Relay Drivers.

Open Collector with 600mA output current.

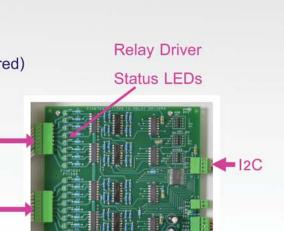
800mA Output Clamp Diodes.

70V Breakdown (for inductive loads, clamping to 35V required)

All relay drivers have status LED for ease of checkout.

Communicate directly to the board with I2C,

or with USB-I2C or RS232-I2C adapter.

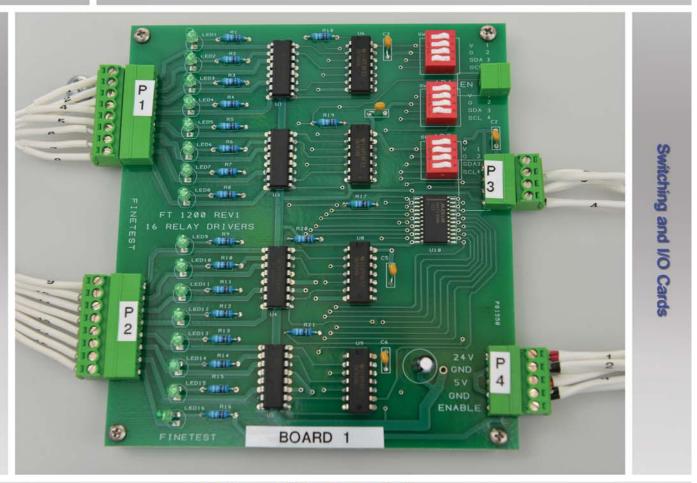




8 OUTPUTS

8 OUTPUTS

Non-Isolated 16 Channel Relay Driver Cards



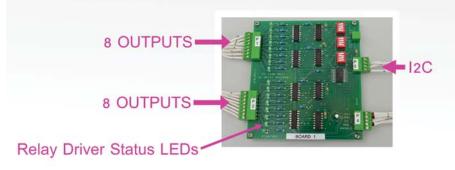
16 Channel Relay Driver Card

Features:

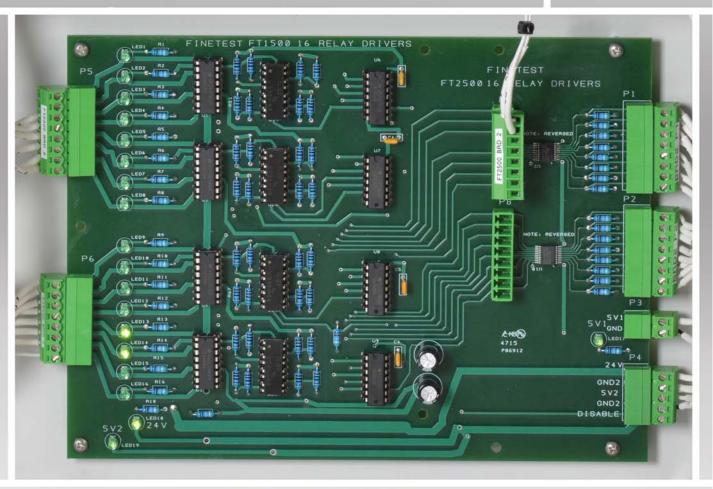
16 Non-Isolated Relay Drivers, Open Collector with 600mA output current.

800mA Output Clamp Diodes, 70V Breakdown (for inductive loads, clamping to 35V required)

All relay drivers have status LED for ease of checkout, Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.







Features:

16 Channel Relay Driver Card

16 Optically Isolated Relay Drivers with De-Bounce Circuit for clean Scope Triggering.

8 OUTPUTS

8 OUTPUTS

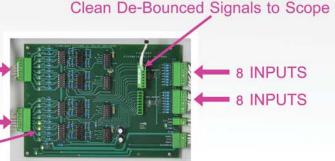
Open Collector with 600mA output current.

800mA Output Clamp Diodes.

70V Breakdown (for inductive loads, clamping to 35V required)

All relay drivers have status LED for ease of checkout.

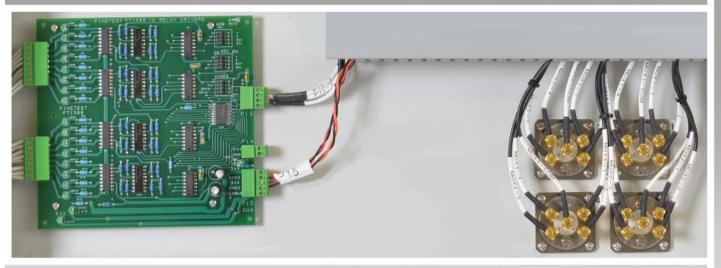
Control line inputs from external relays or digital I/O





Switching and I/O Cards

Quad 4x1 High Frequency Multiplexer



Quad 4x1 HF Mux

Features:

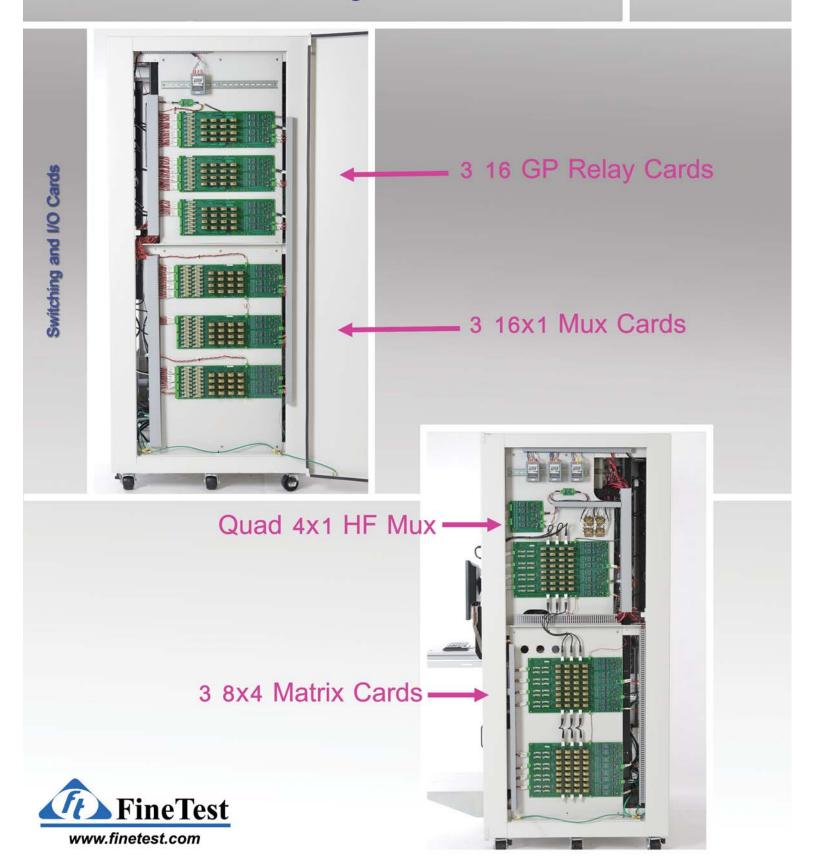
Four 4x1 HF Switches are controlled by a FineTest Relay Driver Card.

All relay drivers have status LED for ease of checkout.

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.



Examples of FineTest ATEs using FineTest Switching and I/O Cards



Examples of FineTest ATEs using FineTest Switching and I/O Cards



8 16 Channel
Relay Driver Cards
controlling 96 Relays

Switching and I/O Cards

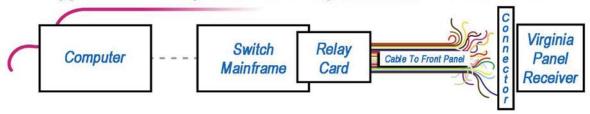


2 16 Channel Relay Driver Cardswith De-Bounce Circuitcontrolling 32 Relays



FineTest Switching & I/O Cards with Built-In Virginia Panel Connectors

Typical ATE Relay Card Assembly without FineTest Cards



FineTest "ALL IN ONE" Solution! NO MAINFRAME! NO CABLING! NO ADDITIONAL CONNECTORS!



FEATURES:

- The units have USB and Ethernet interfaces.
- Provided are Software Drivers for NI LabVIEW, NI LabWindows/CVI, Microsoft C# and Agilent VEE.
- Direct Programming with I²C, USB and Ethernet.
- The units have optional fuse input protection.
- The rows of the matrices and multiplexes are available at the Virginia Panel Connectors and at the rear of the cards for wiring to instruments in the systems or in the fixture.





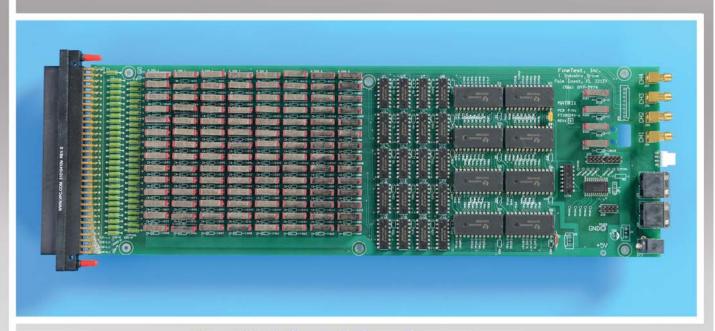
FineTest VP Cards with covers removed



Front view of a FineTest ATE with the Virginia Panel dropped down showing multiple FineTest Switching Cards installed



28x4 2-Wire Matrix Card



28 x 4 Matrix Card with Cover Removed

Features:

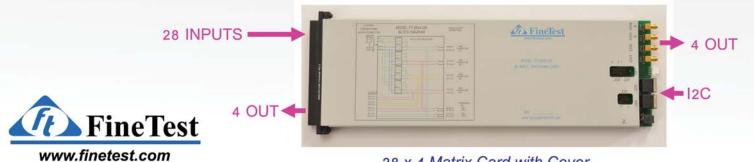
The 28 two-wire Input Columns on the left may be connected to

any of 4 Output Rows at the VP Connector or the 4 BNCs at the rear of the board.

Typical application connects 3 BNCs to an Oscilliscope, and one to a DMM.

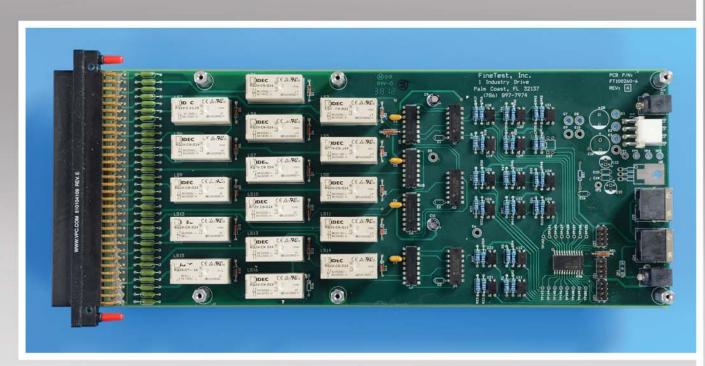
All Inputs are fused on the high and low lines.

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.



28 x 4 Matrix Card with Cover

16 General Purpose Form-A 5A Relay Card



16 General Purpose Relay Card

Features:

16 Form A Relays Rated for 5A each.

All Inputs are fused.

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.





Dual 16x1 Multiplexer Card



Dual 16 x 1 Mux Card with cover removed

Features:

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.

The Mux Outputs are available on the same VP connector, or on the rear connector.

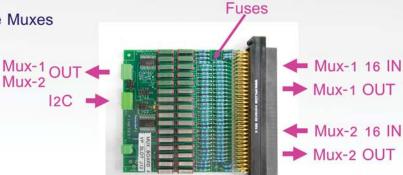
All Inputs are fused on the high and low lines.

The two 16x1 Single Wire Muxes can be used as

Dual Independent 16x1 Single Wire Muxes

Single 32x1 2-Wire Mux

Single 16x1 Four Wire Mux





Optically Isolated 16 Bit Digital IO Cards

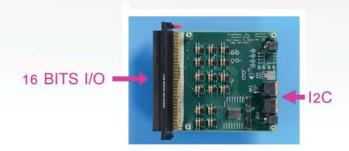


Features:

16 Bit Digital I/O Card

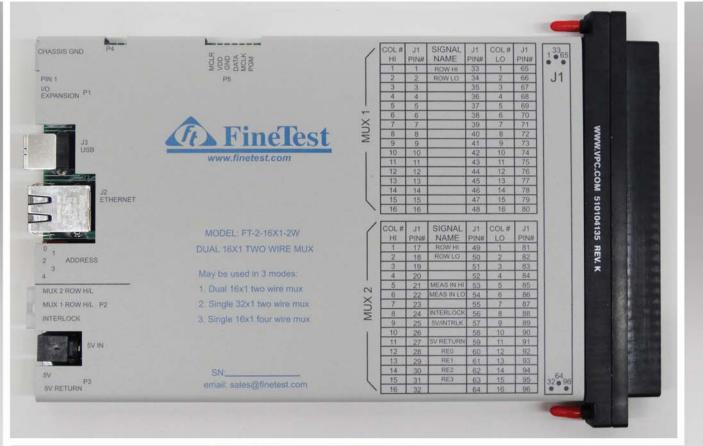
16 Bit Optically Isolated Digital I/O, Open Collector with 600mA output current.

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.





Dual 16x1 Multiplexer Card



Dual 16 x 1 Mux Card with cover

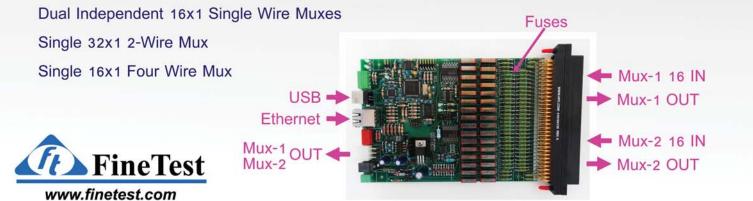
Features:

Communicate directly to the board with USB or Ethernet.

The Mux Outputs are available on the same VP connector, or on the rear connector.

All Inputs are fused on the high and low lines.

The two 16x1 Single Wire Muxes can be used as



16x9 Single Wire Low EMF Matrix Card



16x9 Single Wire Matrix Card with cover removed

Features: 16 x 9 Low EMF Matrix Card. Less than 1uV emf relays used

All Inputs have optional fuses.

Communicate directly to the board with I2C, or with USB-I2C or RS232-I2C adapter.



16x9 Single Wire Matrix Card with cover



Switching and I/O Cards

48x9 Low EMF Precision Matrix



Cover removed showing 3 16x9 Cards

Features:

Precision 48X9 low EMF Matrix Less than 1uV emf relays used 1U Rack-Mount Height USB and Ethernet Interface Software Drivers for:

NI LabView & LabWindows/CVI,
Microsoft C#, Keysight (Agilent) VEE



Front view with cover



96x9 Low EMF Precision Matrix (Dual 48x9 in Parallel)



Front View of two 48x9 configured as a 96x9 Low EMF Precision MAtrix

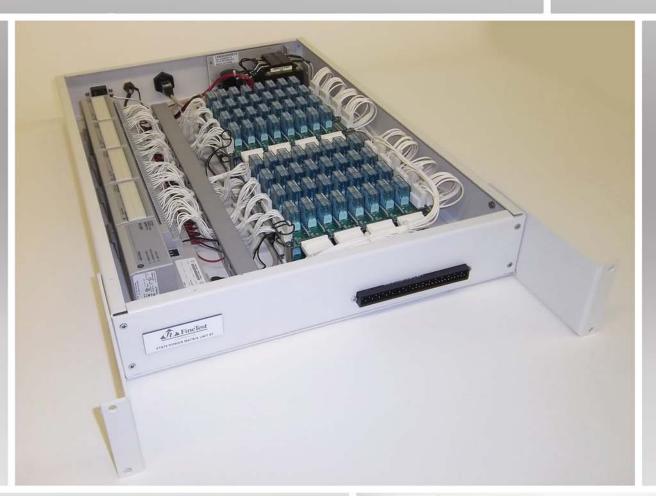


Close-Up of one 16x9 Low EMF Precision Matrix Card



Switching and I/O Cards

32x4 5A Power Matrix Unit



Top Angle view of Power Matrix Unit

Features:

32x4 Matrix 5A@30Vdc/240Vac USB and Ethernet Interface



Side view of Power Matrix Unit



Communications Adpater USB/Ethernet to 3 I2C Ports



USB or Ethernet to 3 I2C Ports Communications Adapter

USB INTERPRETATE TO THE LIC POINTS SET OF THE PROPERTY OF THE POSITIONS SET OF THE POS

Features:

Communications Adapter:

USB or Ethernet to 3 Independent I2C Ports

Each Port has user uelectable switches to set:

Pull-Up Resistors On/Off

Power to Power Pin On/Off

3.3V or 5V Power































FineTest Production Floor

FineTest Building at 1 Industry Drive



www.finetest.com



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