

# terotest

## TINY 2 IN-CIRCUIT TEST SYSTEM

The TR5001T Tiny 2 ICT is a full feature In-Circuit board tester with a laptop sized footprint that provides a very cost effective alternative to large In-Circuit testers.

TINY 2 ICT can be fitted with up to 640 relay switched (six wire) Analogue Test points plus 16 bidirectional Digital pins.

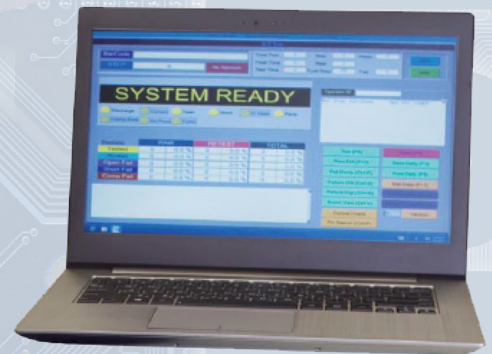
PXI or GPIB instruments may be added to provide a full functional Test capability.

TINY 2 ICT is small enough to mount in your PXI test rack.

- TestJet Technology
- R/L/C Measurement
- Capacitor Polarity Test
- Transistor/Diode Measurement
- Voltage Measurement
- Sine Wave Generator
- Frequency Measurement
- 100V High Voltage Current Source
- On Board Serial Flash Programming
- Supports External Instrumentation
- Self Calibration and Diagnostics

Can be supplied as a standalone unit or fully integrated, including systems interface receiver within an 'iTest' frame.

### TR5001T



Compact, Lightweight & Powerful ICT

Boundary Scan

Parallel Testing Configuration

Serial Device Programming



If you thought you couldn't test it.....  
.....talk to us !

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## TINY 2 IN-CIRCUIT TEST SYSTEM

### General

**Maximum Analogue Test Points:** 640

**Windows Compatible PC or Laptop with USB Ports**

**Operation System:** Microsoft Windows 7

**Power Requirement:** 100-240V single phase, 50/60Hz, 300VA.

**Fixture Type:** Press or Manual

### Analog Hardware

**Measurement Switching Matrix 6-wire measurement**

**Programmable Frequency:** 100Hz, 1KHz, 10KHz, 100KHz

**Programmable DC Voltage Source:**  $\pm 10V$  maximum, resolution: 10mV

**Programmable DC Current Source:** 100mA maximum

**Programmable AC Voltage Source:** 10Vpp maximum, resolution: 10mV

**Component Measurement Capability**

**Resistance:** 40mohm - 40Mohm

**Capacitance:** 10pF - 40mF

**Inductance:** 10 $\mu$ H - 60H

**Analog Measurement**

**AC Voltmeter:** 0 - 100Vpp

**DC Voltmeter:** 0 -  $\pm 100V$ , resolution: 2.5mV - 50mV

**DC Ampmeter:** 1 $\mu$ A - 100mA, resolution: 30nA - 30 $\mu$ A

### Optional Hardware

**Dual-Stage Press Unit or Inline Handler**

**TestJet Technology:** Vectorless open circuit detection

**Programmable High Voltage DC Source:** Up to 100V/100mA

**Sine Wave Generator Frequency range:** 1-100KHz, resolution: 1Hz

**Frequency Measurement:** Up to 200MHz

**Serial Test Module (STM)**

*Two channels for serial Testing up to 1MHz with 16 channels of General Purpose Digital I/O*

*Boundary Scan Nail connection Test(PISO/SIPO), Toggle Scan, SPI/I2C and UART*

*Programmable Voltage Level: Vih: 0.8V - 4.6V at Io=20 mA; Voh: 0.1V - 4.9V*

**Data Acquisition**

*Two Channels, 16bits 10 MSPS flexible arbitrary / DDS waveform generator*

*Four Channels, 16bits 3.8MSPS waveform digitizer*

*One Channel frequency generator*

**Audio Analyzer**

*24-bit audio analyzer with SNR, THD and THD+N analysis*

**Digital Test Module**

*Sixteen channels General Purpose Digital I/O*

*Four programmable DUT Power Supply: 1-20V, 0.6 - 2A, 12 Watt, current measurement 100 $\mu$ A - 2A*

*Two Fixed, 12V and -12V Power: 0.3A, current measurement 10mA - 300 mA*

### Dimensions and Weight

*(W) 334mm x (D) 260mm x (H) 182mm (does not include notebook and accessories)*

*Weight: 8-11kg (does not include notebook or accessories; final weight determined by system selected)*

### Powerful Software Environment

*Auto debug for all passive tests (shorts/opens), R/L/C components, clamping diodes, and TestJet)*

*Built in system diagnostics*

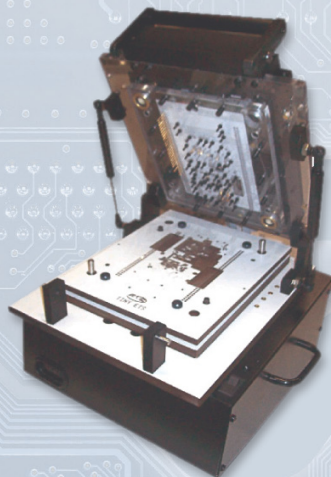
*Test Coverage and CPK reporting are standard*

*Board View will visually highlight failures to device/pin/trace level*

*Board Revision software (single program for multiple board versions)*

*Program Modification Report (Reports any changes to program after release)*

*Shop floor system support*



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