

TR5001T SII TINY SERIES



- Compact & Powerful ICT
- All-in-One Multifunction Tester
- High Speed Serial Programming
- Flexible Functional Testing
- Audio Signal Analysis

IN-CIRCUIT TESTER

TR5001T SII TINY FEATURES



TestJet Technology

Manufacturing Defect Analyzer

RLC Measurement

- 6-Wire Measurement
- Auto-Guarding Feature
- AC Phase Measurement
- High-Speed Test

TestJet Technology

Detects open connections on ICs, connectors and other SMT devices.

Capacitor Polarity Test

- Leakage Current Measurement
- TestJet Detection

Transistor/Diode Measurement

- Diode
- Zener Diode
- Transistor: PNP, NPN
- FET/SCR/TRIAC
- Photo Coupler

Functional In-Circuit Tester

Boundary Scan Technology

- Limited Access Testing

High Speed Serial Ports

- Device Programming
- SPI, I²C, CPLD, UART Protocols

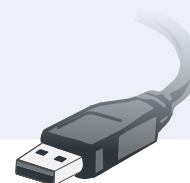
Audio Analyzer & DAQ

- Audio Signal Distortion Analysis
- Arbitrary Waveform Triggering

World's Most Compact, Lightweight and Powerful ICT

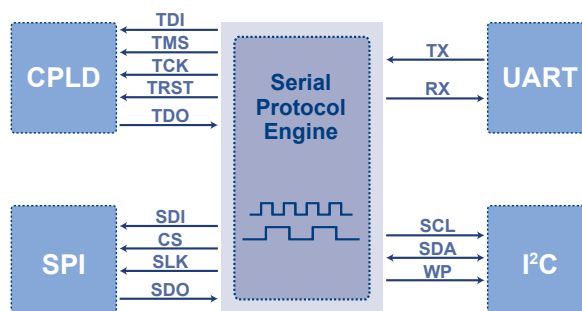
New Features

- Serial Device Programming
- Boundary Scan Test
- Audio Signal Analyzer
- USB Connection



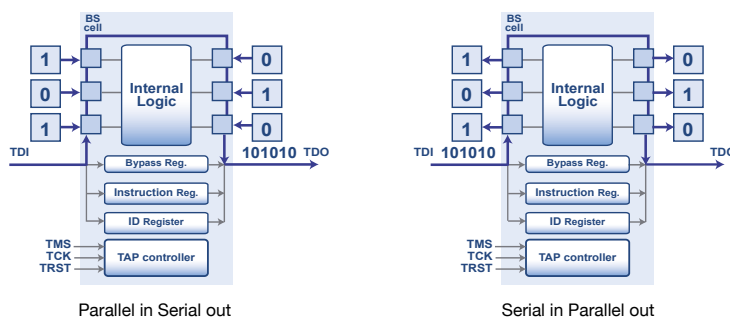
High Speed Serial Device Programming & Testing

Built-in application for programming and testing of supported onboard serial devices, including writing MAC addresses, firmware, and device IDs.



Boundary Scan Test

Limited test access technology for testing component dense PCBAs with BSCAN enabled devices.



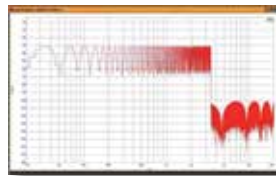
Audio Analyzer and Data Acquisition

Enables audio signal distortion analysis and speaker quality testing using single and multi-tone analysis.

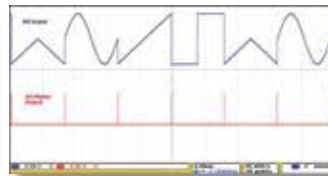
Arbitrary waveform generator enables functional testing of systems with complex triggering preconditions and high speed data acquisition.



Single Tone Analysis



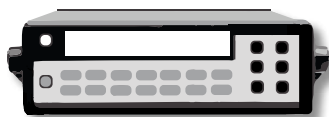
Multi Tone Analysis



Arbitrary Waveform Generator

Test Module Solution

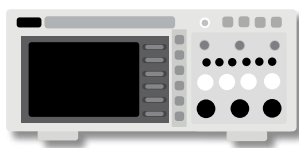
All-in-one powerful multifunctional tester integrates with various test modules:



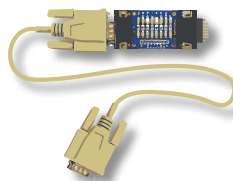
Signal Generator



THD tester



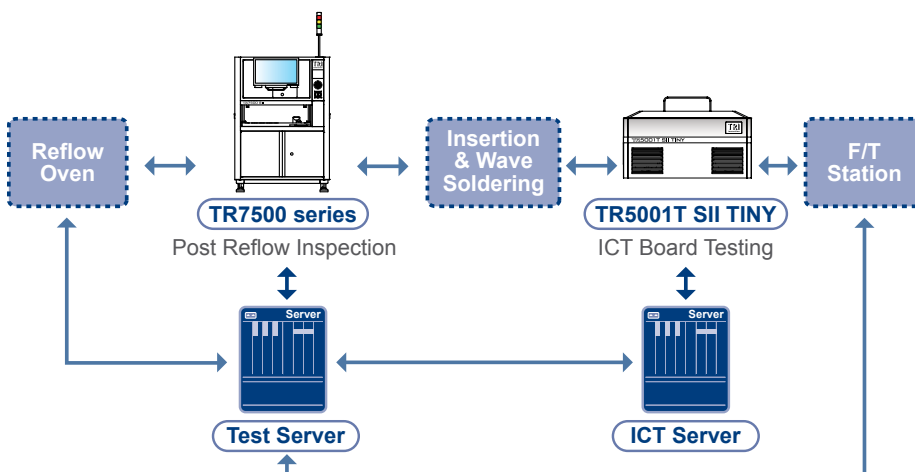
Oscilloscope



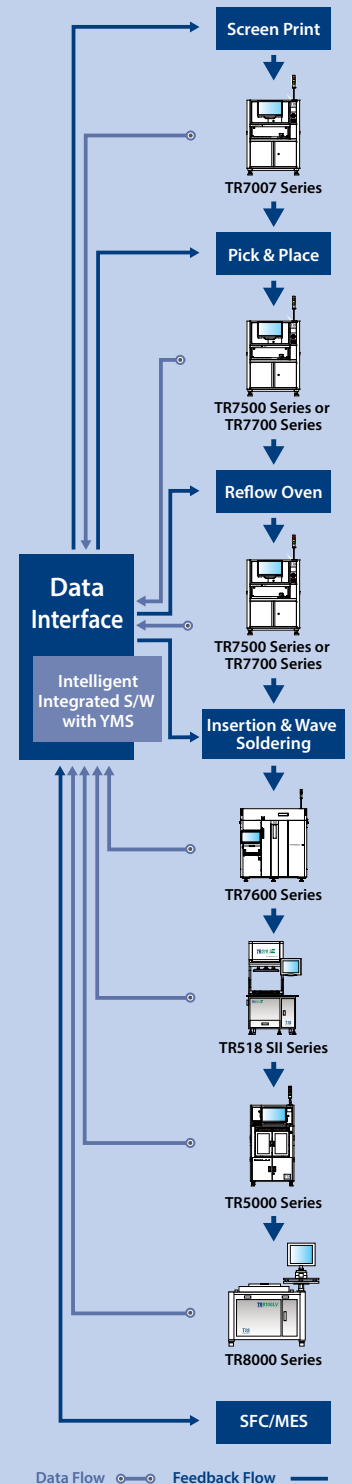
RS-232 Tester

Shop Floor System Support

Integrated data exchange solution that allows performance analysis of production line data for quality assurance and engineering analysis.



Yield Management System



- Inspection results and data integration
- Real time SPC and production yield management
- Quality reports and closed loop tracking
- Support defect component analysis and improvements
- Knowledge Management (KM)
- Productivity and Quality Management

General

Maximum Analog Test Points	640 points
Windows Compatible PC or Laptop with USB Ports	
Operating System	Microsoft® Windows 10
Power Requirement	100 – 240 VAC, Single phase, 50/60 Hz, 500 VA
Fixture Type	Press or manual

Analog Hardware

Measurement Switching Matrix 6-wire measurement

Programmable Frequency	100 Hz, 1 kHz, 10 kHz, 100 kHz
Programmable DC Voltage Source	±10 V maximum, resolution: 10 mV
Programmable DC Current Source	100 mA maximum
Programmable AC Voltage Source	10 Vpp maximum, resolution: 10 mV

Component Measurement Capability

Resistance	40 mohm – 40 Mohm
Capacitance	10 pF – 40 mF
Inductance	10 µH – 60 H

Analog Measurement

AC Voltmeter	0 – 100 Vp
DC Voltmeter	0 – ±100 V, resolution: 2.5 mV – 50 mV

Optional Hardware

Dual-Stage Press Unit or Inline Handler

TestJet Technology

Programmable High Voltage DC Source	Up to 100 V/100 mA
Sine Wave Generator Frequency range	1 – 100 kHz, resolution: 1 Hz
Frequency Measurement	Up to 200 MHz

Serial Test Module (STM)

Two Channels for Serial Testing up to 1 MHz with 16-channel of General Purpose Digital I/O

Boundary Scan Nail Connection Test(PISO/SIPO), SPI/I²C and UART

Programmable Voltage Level	Vih: 0.8 V – 4.6 V at Io=20 mA; Voh: 0.1 V – 4.9 V
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Data Acquisition

Two Channels, 16-bit 10 MSPS Flexible Arbitrary / DDS Waveform Generator

Four Channels, 16-bit 3.8 MSPS Waveform Digitizer

One Channel Frequency Generator

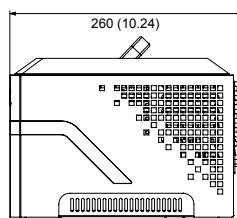
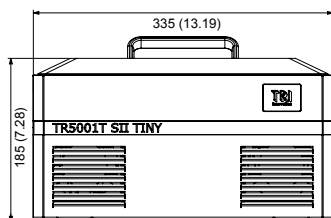
Audio Analyzer

24-bit Audio Analyzer with SNR, THD and THD+N Analysis

Enhanced Digital Test Module (eDTM)

Four Programmable DUT Power Supplies	1 – 20 V, 0.6 – 2 A, 12 Watt, current measurement 1 µA – 2 A (CH1), 100 µA – 2 A (CH2-4), accuracy ±3 % ±0.5 µA
Two Fixed Power Supplies 12V and -12V	0.3 A, current measurement 10 mA – 300 mA
16-channel General Purpose Digital I/O	

Dimensions/Weight



Unit: mm (in.)

Weight: 8 – 11 kg (17.64 – 24.25 lbs)

[does not include notebook or accessories;
final weight determined by system selected]

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