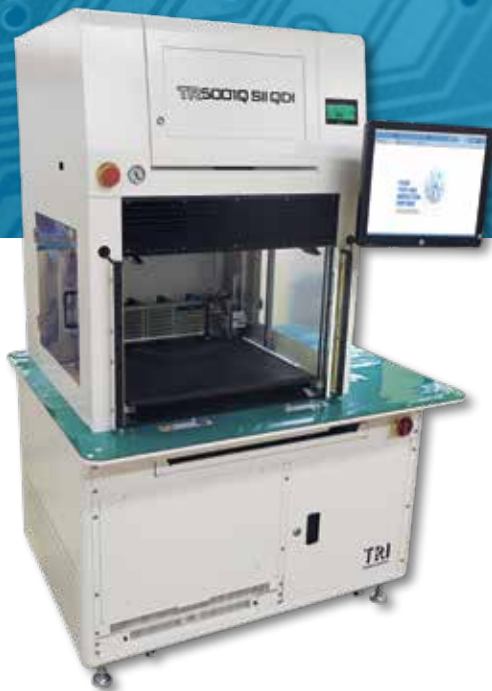


# TR5001 SII SERIES

## LED LIGHTING FUNCTIONAL TESTING



- Multi-Core Parallel Test
- In-System LED Analyzer
- Non-Multiplexing 1:1 per Pin Architecture
- Scalable MDA to ICT and Functional Test
- High Accuracy and High Throughput
- Test up to 1080 LED Channels
- Durable Quick Disconnection Interface
- Automatic Conveyor Width Positioning
- Board Warp and Mis-Alignment Notification

ICT WITH LED  
FUNCTIONAL TEST

## General

### Multicore/Single Core Test

	TR5001 SII INLINE TR5001 SII QDI	TR5001D SII INLINE TR5001D SII QDI	TR5001Q SII INLINE TR5001Q SII QDI
(cores)	1	1, 2	1, 2, 4
Maximum Analog/Hybrid Test Points	2048		
Operating System	Microsoft® Windows compatible PC with USB, Windows 10		
Power Requirement	200 – 240 VAC, Single Phase, 50/60 Hz 3 kVA		
Air Requirement	Dry Air 4 – 8 kg/cm <sup>2</sup> , Air Consumption: 20 liters/cycle		
Fixture Type	Inline or offline with long lifespan Quick Disconnection Interface		

## PCB and Conveyor System

PCB Size	
Standard	(W) 500 x (L) 360 x (H) 0.6 – 5 mm [(W) 19.69 x (L) 14.17 in.]
Min.	(W) 70 x (L) 70 mm [(W) 2.76 x (L) 2.76 in.]
Max. PCB Weight	2 kg (4.41 lbs) [5 kg (11.02 lbs) optional]
Component Height Limitations	
Top Surface of Conveyor	90 mm (3.54 in.)
Bottom Surface of Conveyor	30 mm (1.18 in.)
Conveyor Height	890 – 1000 mm* (35.0 – 39.4 in.)*

\* SMEA Compatible Inline Conveyor

## Analog Hardware

Measurement Switching Matrix	6-wire measurement
Programmable Frequency	100 Hz, 1 kHz, 10 kHz, 100 kHz
Programmable DC Voltage Source	±10V max, Resolution: 10 mV
Programmable DC Current Source	+100 mA max, Resolution: 0.2 mA
Programmable AC Voltage Source	10 Vpp max, Resolution: 10 mV
Programmable High Voltage Current Source	53 V / 100 mA max

## Component Measurement Capability

Resistance	30 mohm – 40 Mohm
Capacitance	5 pF – 40 mF
Inductance	5 µH – 60 H

## Analog Measurement

AC Voltmeter	0 – 100 Vp
DC Voltmeter	0 – ±100 V; Resolution: 2.5 mV – 50 mV
DC Ammeter	1 µA – 100 mA; Resolution: 30 nA – 30 µA

## In-Tester LED Analyzer

Repeatability	1%
LED Channels	Up to 1080 LED Test channels. (Top: up to 540 / Bottom: up to 540.)
Fixture Connection	Quick Disconnection Interface (QDI)

## Optional Hardware

### Analog Test

TestJet Technology	Vectorless open circuit detection
Arbitrary Waveform Generator (AWG)	Frequency Range 0 – 100 kHz; Resolution: 0.15 Hz, BW: 100KHz max

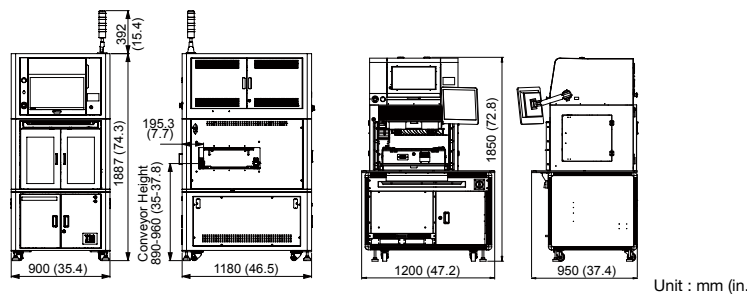
### Digital Test

Non-multiplexing 1:1 per pin architecture with independent per-pin level setting

Pin Drivers	Programmable levels 0.5 V to 4 V
Pin Receivers	Programmable levels 0 V to 5 V
Pull-up/Pull-down Resistor	4.7 K
DUT Power Supplies	5 V@3 A, 3.3 V@3 A, 12 V@3A, -12 V@1 A and 24 V@3 A
APPS Programmable DUT Power Supply	75 V / 8 A max, 200W maximum output power
On-board Programming of Flash & EEPROM Memories	
MAC Address Programming	Supports MAC address programming with server supplied MAC address
Boundary Scan	Includes BScan Chain Test, BScan Cluster Test, BScan Virtual Nails Test, BScan Virtual Chain Test and IEEE1149.6 Test
ToggleScan Test	Advanced test technology that combines with BScan and Vectorless test functions to detect pin open or short issues

Tree Test Facilities with BGA Test	Pattern generator for detection of pin opens for BGA/VLSI chips
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## Dimensions/Weight



	TR5001D/Q SII INLINE TR5001 SII INLINE	TR5001D/Q SII QDI TR5001 SII QDI
Weight	670 kg (1477 lbs)	700 kg (1543 lbs)

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