• 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
**General**

<table>
<thead>
<tr>
<th>Multicore/Single Core Test</th>
<th>TR5001 SII INLINE</th>
<th>TR5001D SII INLINE</th>
<th>TR5001Q SII INLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(cores)</td>
<td>1</td>
<td>1, 2</td>
<td>1, 2, 4</td>
</tr>
</tbody>
</table>

**Maximum Analog/Hybrid Test Points**

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Microsoft® Windows compatible PC with USB, Windows 7-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirement</td>
<td>200 – 240 VAC, Single Phase, 50/60 Hz 3 kVA</td>
</tr>
<tr>
<td>Air Requirement</td>
<td>Dry Air 4 – 8 kg/cm², Air Consumption: 20 liters/cycle</td>
</tr>
<tr>
<td>Fixture Type</td>
<td>Inline or offline with long lifespan Quick Disconnection Interface</td>
</tr>
</tbody>
</table>

**PCB and Conveyor System**

- **PCB Size**
  - Standard: (W) 500 x (L) 360 x (H) 6 mm (W) 19.69 x (L) 14.17 in.  
  - Min. (W) x (L) x (H) mm (W) 70 x 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.)*

* SMEMA Compatible Inline Conveyor

**Analog Hardware**

- **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
- **Component Measurement Capability**
  - Resistance: 30 mohm – 40 Mohm
  - Capacitance: 5 pF – 40 mF
  - Inductance: 5 μH – 60 H
- **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)

**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 V83 A, 3.3 V83 A, 12 V83 A, -12 V83 A and 24 V83 A
- **APPS Programmable OUT 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**

**Dimensions/Weight**

<table>
<thead>
<tr>
<th>TR5001D/Q SII INLINE</th>
<th>TR5001 Q SII QDI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>670 kg (1477 lbs)</td>
</tr>
<tr>
<td></td>
<td>700 kg (1543 lbs)</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. Content may not be used as acceptance criteria. All trademarks are the property of their owners.

TRI Innovation®

The absence of a product or service name or logo from this list does not constitute a waiver of TRI’s trademark or other intellectual property rights concerning that name or logo. All other trademarks and trade names are the property of their owners.