

TINY SII INLINE SERIES

- Compact ICT for Small Boards up to 640 points
- Cost Effective Inline Platform
- Modular MDA/ICT/FCT Configuration
- Intelligent Board Handling for Damage Prevention
- Bypass conveyor for multiple inline testers



IN-CIRCUIT TESTER

SPECIFICATIONS



General

Maximum Analog Test Points	640 points
Windows Compatible PC or Laptop with USB Ports	
Operating System	Microsoft® Windows 7
Power Requirements	200 – 240 V, Single phase, 50/60 Hz, 3 kVA
Inline Fixture	Manual insertion

PCB and Conveyor System

PCB Size	50 x 50 – 330 x 250 mm
PCB Thickness	0.6 – 5 mm
Component Height Limitations:	
Top Surface of Conveyor	30 mm
Bottom Surface of Conveyor	25 mm
Conveyor Height	890 – 1000 mm

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
DC Ampmeter	1 µA – 100 mA, resolution: 30 nA – 30 µA

Optional Hardware

TestJet Technology	Vectorless open circuit detection
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
Board warp Sensor	
Serial Test Module (STM)	
Two Channels for Serial Testing up to 1 MHz with 16 Channels of General Purpose Digital I/O	
Boundary Scan Nail Connection Test (PISO/SIPO) , Toggle Scan, SPI/I ² C and UART	
Programmable Voltage Level	Vih: 0.8 V – 4.6 V at Io=20 mA; Voh: 0.1 V – 4.9 V

Data Acquisition

Two-channel, 16 Bit 10 MSPS Flexible Arbitrary / DDS Waveform Generator	
Four-channel, 16 bit 3.8 MSPS Waveform Digitizer	
One-channel Frequency Generator	

Audio Analyzer

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

Digital Test Module

Four Programmable DUT Power Supplies	1 – 20 V, 0.6 – 2 A, 12 Watt, current measurement 100 µA – 2 A
Two Fixed 12V and -12V Power Supplies	0.3 A, current measurement 10 mA – 300 mA
Sixteen-channel General Purpose Digital I/O	

Dimensions/Weight

Dimensions	(W) 600 x (D) 936 x (H) 1800 mm (not including signal tower, signal tower height: 515 mm)
Weight	340 kg

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 C _{pk} reporting are standard	
Board View visually highlights 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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EQUIP-TEST KFT.
Vágóhíd utca 19.
H-2220 Vecsés
Hungary
TEL: + 36 (29) 550940
FAX: + 36 (29) 356480
E-mail: sales@equip-test.com
http://www.equip-test.com

POLAND
Equip-Test Sp.z.o.
Balicka 160
30-198 Kraków
Poland
TEL: + 48 (12) 426 0260
FAX: + 48 (12) 426 0261
E-mail: infopl@equip-test.com

CZECH REPUBLIC
Equip-Test s.r.o.
Slovakova 8
CZ – 602 00 Brno
Czech Republic
TEL: + 420 (541) 420 076
E-mail: infocz@equip-test.com

SLOVAKIA
Equip-Test s.r.o.
Čečinová 16/G
SK – 821 05 Bratislava
Slovakia
TEL: + 421 (243) 411 999
FAX: + 421 (243) 413 097
E-mail: infosk@equip-test.com

ROMANIA
Echip-Test s.r.l.
Str. Locomotivei Nr.4
410431 Oradea
Romania
TEL: +40 (259) 410 121
E-mail: infofo@equip-test.com

GERMANY
Equip-Test GmbH
Max-Stromeyer-Str. 116
D-78467 Konstanz
Deutschland
TEL: + 49 7531 6984377
FAX: + 49 7531 6984379
Mobile: + 49 151 12929189
E-mail: infode@equip-test.com

SERBIA
Multi-Test d.o.o
Topolski put 65.
21220 Bečej
Serbia
TEL: + 381 652 054 160
E-mail: infors@equip-test.com

UKRAINE
Ekip-Test Ukraine
Hoydy str.10 office 72
Uzhgorod, 88000
Ukraine
TEL: + 38 (0312) 61 23 98
E-mail: infoua@equip-test.com

BULGARIA
Equip - Test OOD
Dimitar Petkov str. Nr. 69
2nd Floor, Office 3
Sofia 1309
TEL: + 359 (89) 465 3694
E-mail: infobg@equip-test.com

ASIA (SINGAPORE)
Equip - Test Asia PTE. LTD.
11 Kallang Place
#04-05
Singapore 339155
TEL: + 65 6291 5808
FAX: + 65 6291 5408
E-mail: infosg@equip-test.com