

Spider Stand-alone PXI-Based ICT/Functional Test

PXI

TEST
AUTOMATION



- Stand-alone ICT and Functional Test System
- Various Interfaces
- Vacuum or Manual Fixtures
- Comfortable Editor for Component Test
- Open Architecture: LAN, GPIB, VXI, PCI, PXI-Systems
- Software based on TestStand™, LabWindows/CVI™, LabView™
- High Accurate and Fast Analog In-Circuit Test
- Boundary Scan, SMD-Opens Test, C-Polarity, Flash Programming

OPTC
EXPERTS IN FACTORY AUTOMATION

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Technical Specification			
Number of Test Point:	Up to 1,152 with 18 slot PXI Mainframe Up to 1,440 with 21 slot PXI Mainframe		
Component Test Specification (4-wire measurement, calibration temperature)			
Resistance:	0.1 ohm	1 ohm	±5.0 % ±0.015 ohm
	1 ohm	10 ohm	±2.0 % ±0.015 ohm
	10 ohm	100 ohm	±0.75 % ±0.015 ohm
	100 ohm	100 kohm	±0.75 %
	100 kohm	1 Mohm	±2.0 %
	1 Mohm	10 Mohm	±3.0 %
Capacitance:	10 pF	100 pF	±5.0 % ±2 pF**
	100 pF	1 nF	±3.5 % ±2 pF**
	1 nF	1 µF	±1.0 %
	1 µF	100 µF	±1.5 %
	100 µF	10 mF	±2.0 %
	** After residual capacitance compensation		
Inductance:	10 µH	100 µH	±5.0 % ±1 µH
	100 µH	1 mH	±3.0 % ±1 µH
	1 mH	100 mH	±2.0 %
Zener- / Diode:	0.1 V - 24 V, 15-Bit resolution, programmable current Up to 42 V / 200 mA with ATU ² Card		
Transistor:	Base-Emitter Diode Measurement		
Open / Shorts:	Programmable Treshold from 1 ohm to 1 kohm, auto learn feature		
Discharge:	Up to ±42 V / 0.5 A		
Contact:	Auto Learn feature		
Active Relay Test:	Only with ATU ² Card (second stimuli)		
Functional Test			
DMM:	16-Bit resolution		
	±42 V inside PXI-Chassis (100 V range), ±0.3 A		
Serial Interface:	Tools for interaction with DUT via serial line		
Power Supply Switching:	Special board for switching power-supplies and general purpose contacts, up to 6 A		
Performance			
270 test/sec single component (Pentium 4, 1.6 GHz, 256 MB RAM)			
Typical test time of 365 mixed components (TV-Chassis) in 10 seconds including discharge, contact test, shorts, opens using FastICT™ technology			



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