

FLYING PROBE

FIXTURELESS TESTING



CONDOR MTS 505

- > 4 heads linear probe system incl. OpensCheck on each head
- > Prototype and production testing
- > Available in frontloader or in-line configurations
- Bottom side probing with up to 1,012 fixed test pins (SNAP) or optional fixture capability
- > Automatic analysis of test program quality (FailSim)
- > Digital camera with full control for component inspection
- > Testable PCB (in-line) max. 505 x 500 mm and 10 kg
- > Boundary Scan integration (optional)

The Condor system is perfectly suitable for electronic manufacturers (EMS), due to its flexible fixtureless testing capabilities.









Electronic Board System & Electronic Manufacturing Software

CONDOR HARDWARE BASE SYSTEM

	In-line system		Frontloader		
Footprint	1550 mm x 2000 mm x 1200 mm (WxHxD)		1550 mm x 1600 mm x 1200 mm (WxHxD)		
Conveyor	Automatic board conveyor		Manual load / unload		
PCB size	Max. 505 x 500 mm		Max. 432 x 508 mm		
PCB weight	Max. 10 kg		Max. 3 kg		
Controller					
Industrial standard PC					
ICT measurements (AMU)					
Quadrature measurement bridge					
Guard ratio		1:1000			
3 voltage sources		(AC/DC) 0 - 100 V			
Frequency		DC to 100 kHz			
Current		Up to 250 mA			
Measurement					
Voltage		(AC/DC	c) up to 100 V		
Current		(AC/DC) up to 100 mA			
Resistors		0.1 Ohm - 100 MOhm			
Capacitors		1 pF to	100 mF		
Inductors		10 µH t	o 10 H		
Kelvin measuren	nent				
Diode and zener forward and backward direction up to 100 V					
Transistor, optocoupler etc. active test					
6-wire reed relay matrix (MUX)					

ANALOG OR HYBRID SYSTEM

Analog ICT				
4 flying probes + up to 1012				
Hybrid digital driver/sensors				
4 flying probes + up to 1012				
Input/output	± 10 V in 20 mV resolution			
Max. current	± 500 mA (backdriving) or 50 mA for static D/S operation			
Tristate-capable/driver-monitoring/logic levels programmable per pin				

HARDWARE OPTIONS

Programmable power supplies (UPC)				
Voltage resolution	2.2 mV			
Accuracy	20 mV			
Current limit resolution	2.5 mA			
Accuracy	±50 mA			
Short-circuit monitoring via software and hardware				
Software-controlled on/off switching				
Separate force and sense lines				
Thermal shutdown				
UPC02-09	9 V / 10 A			
UPC02-24	24 V / 5 A			
UPC02-45	45 V / 3.5 A			
Frequency/time measurement card (MTC)				
Up to 100 MHz				
DC/AC source and measurement card (MSM)				
Additional precise U/I signal sources (floating)				
Additional precise U/I measurement (floating)				
FailSim				
Verification of test program quality				

CITE TEST SYSTEM SOFTWARE (INCLUDED)

C-LINK Design to Manufacturing Software
Automatic generation of fixture-data, net lists, parts lists, layout data etc.
Program development
Automatic Program Generator (APG) generates test programs using the board description (manual or automatical generation).
Library for analog and digital IC's.
Functional test enhancements using Menu Aided Programming (MAP). Test program code language based on Visual Basic (VB) 6, VB .NET and/or table based GenFast.
Recording test results (failing data and/or complete measurement results) to use for repair and traceability.
Program debugging
Powerful debugging using table based GenFast (mainly for analog ICT) and/or all functionality provided by Visual Basic 6 and VB .NET.
Single Step mode execution available.
Debug window for displaying measurement results.
Possibility to make changes to all command parameters and directly seeing their impact.
Layout viewer, schematics viewer (optional), highlighting failing component to support debug work.
Selftest
Checks the hardware of test system and localizes faulty modules (diagnosis down to relay-level).
QCAM (test stability report)
Reports the stability and quality of a test program. Makes debugging easy and efficient.

SOFTWARE OPTIONS

QMAN Quality Management Software
Paperless repair, statistics, quality data management, fault catalogue.
Digitizer 2.0
Recovery of design data (CAD) of unknown circuit boards.
Boundary Scan
Boundary scan software integration: development, execution and diagnostics.
LabView and TestStand

Link to National Instruments LabView or TestStand available

Company

Digitaltest is a strong partner of the electronics industry and has more than 35 years of experience in development, implementation and support of automated test equipment (ATE) for printed circuit boards. The complete product portfolio of the global company includes hardware technology, software to automate the production and evaluate the production process with its quality management software.

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