

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)

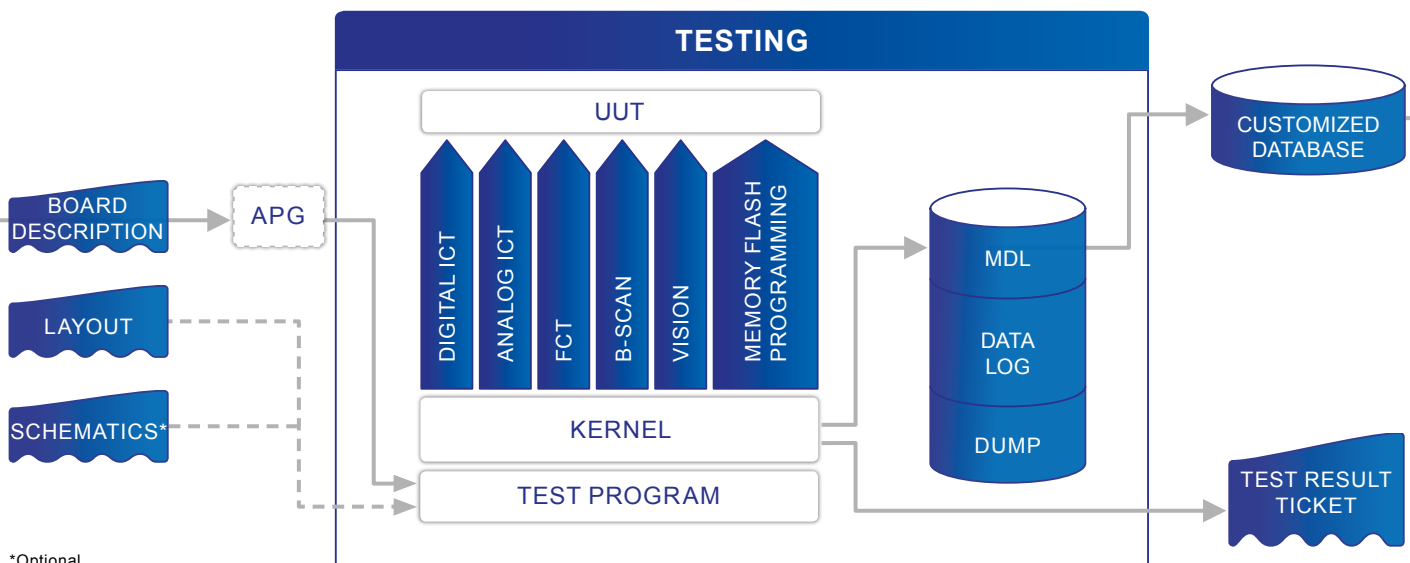
The Condor system is perfectly suitable for electronic manufacturers (EMS), due to its flexible fixtureless testing capabilities.

TEST SYSTEM SOFTWARE



CITE

COMPUTER INTEGRATED
TEST ENVIRONMENT





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) 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 to 10 H	
Kelvin measurement		
Diode and zener forward and backward direction up to 100 V		
Transistor, optocoupler etc. active test		
6-wire reed relay matrix (MUX)		

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.

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	

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

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	

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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