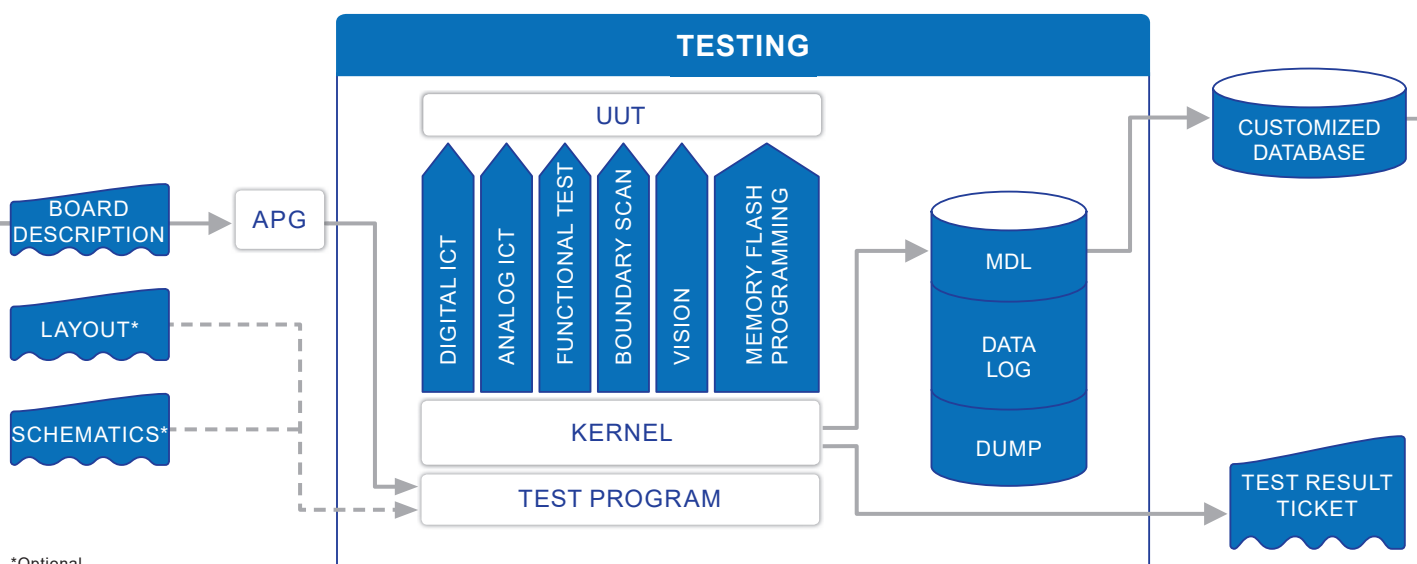## Flying Probe Test System

CONDOR
MTS 505

MADE IN GERMANY

> 4 heads linear probe system
> Universally applicable for all test methods
> Frontloader (manual loading), also available in-line
> Printed circuit boards without test points
> Optional fixture with up to 1,012 fix pins

The Condor combines various test methods and can therefore be used universally for all test strategies.

be universal

Test System Software

CITE
COMPUTER INTEGRATED
TEST ENVIRONMENT

TESTING

UUT

DIGITAL ICT | ANALOG ICT | FUNCTIONAL TEST | BOUNDARY SCAN | VISION | MEMORY FLASH PROGRAMMING

KERNEL

TEST PROGRAM

BOARD DESCRIPTION

APG

LAYOUT*

SCHEMATICS*

MDL

DATA LOG

DUMP

CUSTOMIZED DATABASE

TEST RESULT TICKET

*Optional

Condor Hardware Base System

	In-line System	Frontloader
Footprint	1550 mm x 2000 mm x 1200 mm (W x H x D)	1550 mm x 1600 mm x 1200 mm (W x H x D)
Conveyor	Automatic board con-veyor	Manual load / unload
PCB size	Max. 505 x 500 mm	Max. 432 x 508 mm
PCB weight	Max. 10 kg	Max. 3 kg
Component height	Max. 50 mm	Max. 50 mm

AMU Module (ICT measurement)

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

Analog or hybrid System

4 flying probes + up to 1,012

MUX Module (Analog ICT)

6-Bus Matrix for 128 pins each

HYB Module (Hybrid digital driver/sensors)

4 flying probes + up to 1,012

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

UPC Module (Programmable power supplies)

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

MTC Module (Frequency/time measurement card)

Up to 100 MHz / 10 µs

MSM Module (DC/AC source and measurement card)

Additional precise U/I signal sources (floating)

Additional precise U/I measurement (floating)

FailSim Module (Verification of test program quality)

Simulates defective component to improve actual error detection

Add-ons

Boundary Scan

Boundary Scan Integration: development, implementation and diagnosis

Programmer Modules

On-Board Flash Programming

Test System Software (included)

C-LINK Software (CAD/CAM)

Automatic generation of fixture-data, net lists, parts lists, layout data etc.

By combining design to test with production, profitability and product quality are increased, test costs are reduced and test and product launch times are shortened.

CITE Software (System)

Automatic Program Generator (APG) generates test programs using the board description (manual or automatical generation).

Powerful debugging using table based GenFast (mainly for analog ICT) and/or all functionality provided by Visual Basic 6 and VB.NET.

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.

Debug window for displaying measurement results.

Possibility to make changes to all command parameters and directly seeing their impact.

CAD Viewer Layout Software

Displays converted CAD data from electronic assemblies and is used for test program creation, repair, manual assembly and fixture maintenance.

QCAM (Test stability report)

Reports the stability and quality of a test program. Makes debugging easy and efficient.

Software Options

QMAN Software (Paperless Repair)

Paperless repair, statistics, quality data management, fault catalogue.

CAD Viewer Schematics Software

Displays converted CAD data from assemblies and is used in test program creation, repair, and quality assurance.

Digitizer Software (CAD Data Recovery)

Recovery of design data (CAD) of unknown circuit boards.

Company

Since 1980 Digitaltest is a strong partner of the electronics industry and has years of experience in development, implementation and support of automated test equipment (ATE) for electronic 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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