Flying Probe Test System

CONDOR
MTS 505

- 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

MDL
DATA LOG
DUMP

CUSTOMIZED DATABASE

TEST RESULT TICKET

*Optional
Condor Hardware Base System

<table>
<thead>
<tr>
<th></th>
<th>In-line System</th>
<th>Frontloader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Footprint</td>
<td>1550 mm x 2000 mm x 1200 mm (W x H x D)</td>
<td>1550 mm x 1600 mm x 1200 mm (W x H x D)</td>
</tr>
<tr>
<td>Conveyor</td>
<td>Automatic board conveyor</td>
<td>Manual load / unload</td>
</tr>
<tr>
<td>PCB size</td>
<td>Max. 505 x 500 mm</td>
<td>Max. 432 x 508 mm</td>
</tr>
<tr>
<td>PCB weight</td>
<td>Max. 10 kg</td>
<td>Max. 3 kg</td>
</tr>
<tr>
<td>Component height</td>
<td>Max. 50 mm</td>
<td>Max. 50 mm</td>
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**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**

**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

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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, manual assembly and fixture maintenance.
- **Digitizer Software (CAD Data Recovery)**
  - Recovery of design data (CAD) of unknown circuit boards.

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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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