OMEGA
MTS 888

> Up to 7,040 pins
> Ergonomic handling
> Saves time to market: the fixture build can start while test program is being generated
> Analog and digital in-circuit test (low voltage technology), functional test, end-of-line test, Boundary Scan
> 1:1 non multiplexed pin architecture
> Available as Lambda Edition for real parallel testing

The Omega is our high performance tester, with the highest test pin count.
OMEGA HARDWARE BASE SYSTEM

**Footprint**
1500 mm width x 860 - 1060 mm adjustable height x 750 mm depth

**Controller**
Industrial standard PC

**ICT measurements (AMU)**

<table>
<thead>
<tr>
<th>Quadrature measurement bridge</th>
<th>1:1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guard ratio</td>
<td></td>
</tr>
<tr>
<td>3 voltage sources</td>
<td>(AC/DC) 0 - 100 V</td>
</tr>
<tr>
<td>Voltage frequency</td>
<td>DC to 100 kHz</td>
</tr>
<tr>
<td>Current</td>
<td>Up to 250 mA</td>
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</tbody>
</table>

**Measurement**

| Voltage                     | (AC/DC) up to 100 V |
| Current                     | (AC/DC) up to 100 mA |
| Resistors                   | 0.1 Ohm - 100 MΩhm |
| 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)

**Program development**
Automatic Program Generator (APG) generates test programs using the board description (manual or automatic generation).
Library for analog and digital IC’s.
Functional test enhancements using Menu Aided Programming (MAP).
Translation of test programs from common test systems and all MTS test systems.
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

**C-LINK Design to Manufacturing Software**
Automatic generation of fixture-data, net lists, parts lists, layout data etc.

**QMAN Quality Management Software**
Paperless repair, statistics, quality data management, fault catalogue.

**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)

**FallSim**
Verification of test program quality

**External modules**
For example IEEE, PXI, USB, RS232, CAN, LIN and much more

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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