

MT9510 XP Pick & Place Handler



the Facts >

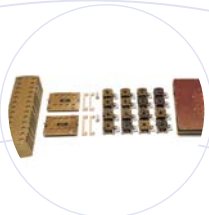
- > up to 8 contact sites
- > outstanding temperature performance
- > tri-temp from -55 to +175° C
- > kitable system for QFP, BGA, PGA, QFN and other packages
- > vision alignment
- > advanced, scalable ESD protection
- > contacting: standard, high frequency and Kelvin
- > throughput up to 5,300 uph
- > installed MT9510 base: more than 500 systems

Handling Solution for >

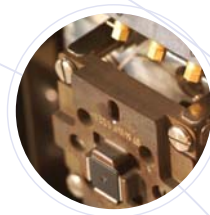
- > large and small size packages e.g. QFP, BGA, PGA and QFN with a pitch down to 0.3 mm
- > device size from 3x3 to 70x70 mm

Applications >

- > automotive power devices
- > RF and communication
- > logic, amplifier and linear
- > processors and DSP's



conversion kit



temperature accuracy



tape & reel



closed loop ESD protection

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MT9510 XP Pick & Place Handler



1 Base System

- 1.1 Available Versions:
- ambient hot (+ 155° C standard, +175° C optional), tri-temp (- 55° C to +155° C, +175° C optional)
 - tray to tray or tray to tape
 - 4 or 8 contact sites

- 1.2 Available Options (Selection):
- IEEE 488.2 interface
 - 8-contact site upgrade
 - automatic feet
 - cooler for ambient systems
 - ionizer, I/O area input
 - ionizer, contact chamber
 - ionizer, I/O area output
 - <5x5mm device handling
 - vacuum insulated LN2 connection
 - higher contact force
 - extended plunger stroke
 - CUH code connector
 - vision system

2 Package Style Conversion

- 2.1 Conversion Kits:
- uses conversion kits for easy package style conversion
- 2.2 Required Conversion Time:
- typ. 15 min for 1 person
- 2.3 Adjustments:
- no adjustments required after package style conversion

3 Packages

- 3.1 Conversion Kits for:
- QFP, BGA, uBGA, PLCC, TSSOP, CSP, QFN (MLF/MLP), PGA, LGA, MCM, other package styles on request
- 3.2 Min. and Max. Size of Packages:
- 3x3 to 70x70 mm
 - min. lead pitch: down to 0.4 mm (standard set-up) below 0.4 mm (with vision alignment option)

4 Loading/ Unloading

- 4.1 Loading/Unloading Material and Size:
- all commonly used trays acc. to JEDEC standard CO-012, CO-029 and CO-034. others on request.
- 4.2 Type of Loader:
- tray stack, separate input/output tray loop
- 4.3 Loading/Unloading Possible During Operation:
- yes

5 Contacting

- 5.1 Contact Modes:
- parallel
 - ping-pong
- 5.2 Applications:
- short contact ambient (plunge to board)
 - short contact tri-temp (plunge to board)
 - standard (including temperature insulation and hot air purge)
- 5.3 Available Contact Sockets:
- Multitest offers contact sockets for all package versions and applications, i.e. standard, high frequency and Kelvin.
 - Sockets from other suppliers may be used, e.g. ECT, Yamaichi, Synergetix, JTI, Enplas, Aries, OzTek, Seiken-others on request.

6 Temperature Accuracy

- 6.1 Test Site Accuracy:
- +/- 2° C
 - +/- 1° C after kit specific calibration
- 6.2 Test Site Temperature Stability:
- +/- 0.5° C

7 Bin Categories

- 7.1
- 1 high volume plus 3 or 6 manual categories
 - software binning categories: 32

8 Docking

- 8.1 Docking Height:
- 990 mm (center of sockets)
- 8.2 Compatibility:
- all commonly used docking systems and test heads are supported. Multitest offers the high performance docking system (QuickDock)

9 Performance

- 9.1 Throughput:
- example quad mode: 5,300 uph at 2.0 s test time
- 9.2 Index Time:
(virtual index time for multiple contact sites)
- single mode: 0.38 s
 - dual mode: 0.19 s / device
 - quad mode: 0.10 s / device
 - octal mode: 0.05 s / device.

10 Facility Requirements

- 10.1 Power Supply:
- factory setting: 400 V AC 3 phases/N/PE, 16 Amps each
 - alternative connections: 208 V AC 3 phases/N/PE, 16 Amps each 230 V AC 1 phase/N/PE, 32 Amps 50/60 Hz
- 10.2 Power Consumption:
- all heaters on: max. 5,200 W
- 10.3 LN2 Consumption (for Cold Operation Only):
- typ. 18 l/h for cold operation
 - typ. 33 l/h for cooling down from ambient to -55° C
- 10.4 Compressed Air Pressure and Consumption:
- nominal pressure: 5 to 10 bar (70 to 145 psi)
 - consumption depends on temperature and operation mode: 170 to 760 l/min
- 10.5 Mobility:
- system is on casters, handler can be moved by one person
- 10.6 Weight:
- operation condition: 800 kg (1178 lbs)
 - incl. packing crate: 950 kg (1400 lbs)

11 Compliance and Standards

- 11.1 Compliant to:
- CE

All performance specification such as MTBF, MTBA, Uptime, Yield and Jam Rate assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals are respected, operators/maintenance technicians have successfully participated in a formal equipment training by Multitest, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met.

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