Cohu

MT9510 XP

Tri-Temp Pick and Place Handler

Applications:

- Automotive power devices
- RF and communication
- Logic, amplifier and linear
- Processors and DSP's

Solution for:

- Large and small size packages e.g. QFP, BGA, PGA and QFN
- Device size from 2 mm x 2 mm to 70 mm x 70 mm
- Standard IC and MEMS/sensor test

Facts:

- Up to 8 contact sites
- Outstanding temperature performance
- Tri-temp from -55 °C to +175 °C
- Kitable system for QFP, BGA, PGA, QFN and other packages
- Advanced, scalable ESD protection
- Contacting: standard; high frequency and Kelvin
- Throughput up to 5300 uph
- Installed MT9510 base: more than 950 systems

MT9510 XP

1. Base System

1.1 Available Versions
- Ambient, ambient hot (+ 155 °C standard, +175 °C optional)
- Tri-temp (-55 °C to +155 °C, +175 °C optional)
- Tray to tray
- Up to 16 contact sites

1.2 Available Options (Selection)
- Interface SECS-II / GEM
- Automatic feet
- Ionizer, I/O area and contact chamber
- Charged plate monitor (CPM)
- Handling of devices smaller than 5 mm x 5 mm
- Double device detection
- InSite®
- Vacuum insulated LN2 connection
- Safe LN2 tank change
- De-icing monitoring
- Color tray detection

2. Packages Style Conversion

2.1 Conversion Kits
- Uses conversion kits for easy package style conversion

1.1 Required Conversion Time
- Typ. 20 min for 1 person

2.2 Adjustments
- No adjustments required after package style conversion

3. Packages

3.1 Conversion Kits for
- QFP, BGA, µBGA, PLCC, TSSOP, CSP, QFN (MLF/MLP), PGA, LGA, MCM, other package styles on request

3.2 Min. and Max. Size of Packages
- 2 mm x 2 mm to 35 mm x 35 mm (for up to 8 contact sites)
- 2 mm x 2 mm to 20 mm x 20 mm (for 16 contact sites)
- Min. lead/pad/ball pitch: 0.4 mm

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 Contactors
- Cohu offers contactors for all package versions and applications, i.e. standard, high frequency and Kelvin.
- Sockets from other suppliers may be used, e.g. Yamaichi, Synergetix, JTI, Enplas, Aries, OzTek, Seiken- others on request.

6. Temperature Accuracy

6.1 Test Site Accuracy
- +/- 3 °C

6.2 Test Site Temperature Stability
- +/- 0.5 °C

7. Bin Categories

- High volume plus 3 or 6 manual categories
- Software binning categories: 32

8. Docking

8.1 Docking Height
- 990 mm (floor to CUH center)

8.2 Compatibility
- All commonly used docking systems and test heads are supported

9. Performance

9.1 Throughput
- Up to 5,300 uph

9.2 Index Time
(Virtual index time for multiple contact sites)
- Octal mode: 0.08 s / device
- X16 mode: 0.04 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

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 l/min to 940 l/min

10.5 Mobility
- System is on casters, handler can be moved by one person

10.6 Weight
- Operation condition: 850 kg (1900 lbs)
- Incl. packing crate: 1050 kg (2350 lbs)

11. Compliance and Standards

11.1 Compliant to
- CE

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