

MT9510 XP

Tri-Temp Pick and Place Handler



Automotive



Mobility



IoT/IoV & Optoelectronics



Computing & Network

Industrial & Medical



Consumer

- Productivity
- Up to 5,300 UPH
- Up to x8 test site parallelism
- Fast index time 0.38 s
- High temperature accuracy
- Easy package style conversion in 15 mins
- Kitable system for QFP, BGA, PGA, QFN and other packages

Flexibility

- Device size from 2 mm x 2 mm to 70 mm x 70 mm
- Large and small size packages e.g. QFP, BGA, PGA and QFN
- Output versions: automatic tray module and single tray
- Advanced, scalable ESD protection
- Standard IC and MEMS/sensor test
- Contacting: standard; high frequency and Kelvin
- Full tri-temp range: -55 °C to +175 °C
- Temperature stability ± 0.5 °C
- Temperature accuracy ± 1.0 °C
- Small footprint
- Flat vertical contact site
- Large installed base

MT9510 XP



Tri-Temp Pick and Place Handler Specifications

Platform

Performance Characteristics

- Throughput up to 5,300 UPH
- Index Time (Virtual index time for multiple contact sites)
 - Octal mode: 0.08 s / device
 - X16 mode: 0.04 s / device

Temperature Characteristics

- Ambient, ambient hot (+ 155 °C standard, +175 °C optional)
- Tri-temp (-55 °C to +155 °C, +175 °C optional)
- Test Site Accuracy +/- 3 °C
- Test Site Temperature Stability +/- 0.5 °C

Loading/Unloading

- All commonly used trays acc. to JEDEC standard CO-012, CO-029 and CO-034, others on request
- Type of Loader: tray stack, separate input/output tray loop
- Loading/Unloading Possible During Operation: Yes

Contacting

- Contact Modes
- Parallel
- Ping-pong
- Applications
 - Short contact ambient (plunge to board)
 - Short contact tri-temp (plunge to board)
 - Standard (including temperature insulation and hot air purge)

Bin Categories

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

Docking

- Docking Height: 990 mm (floor to CUH center)
- All commonly used docking systems and test heads are supported

Available Versions

- Tray to tray
- Up to 16 contact sites

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

Facility Requirements

- 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
- Power Consumption: all heaters on: max. 5,200 W
- 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
- 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
- Mobility: system is on casters, handler can be moved by one person

Physical Dimensions

- Width / Height: 1.19 m x 1.57 m (47" x 62")
- Weight: 850 kg (1,900 lbs). Including packing crate: 1050 kg (2,350 lbs)

Standards

• Compliant to CE

Change Kit

Device Types

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

Device Specifications

- 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

Kit Changeover

- Uses conversion kits for easy package style conversion
- Required Conversion Time typ. 15 min for 1 person
- No adjustments required after package style conversion

Contactors

• Cohu offers contactors for all package versions and applications, i.e. standard, high frequency and Kelvin

Specifications subject to change without notice. For detailed performance specifications, please contact Cohu.

REV20200511

www.cohu.com/mt9510 www.cohu.com/test-handlers Cohu, Inc. 12367 Crosthwaite Circle, Poway, CA 92064-6817 Tel. +1 858.848.8000 l info@cohu.com l www.cohu.com © 2020 Cohu, Inc.: All rights reserved.