

Test Cell Solution



MEMS ICs

Highest parallelism and best stimulus quality for MEMS test

Leveraging Leading Test Solutions to Address Today's and Tomorrow's Challenges

- improve productivity beyond the limits of conventional approaches
- improve flexibility and agility to react to fluctuating and fast ramp-up demands
- gain competitive advantage by focusing resources on new, disruptive technologies



Flexible and scalable InStrip handler platform



Modular MEMS options



Diamond_x for low CoO and high parallel test efficiency

Customer Benefits

- fastest time to volume and peak productivity
- highest accuracy for MEMS stimulus and tri-temp control to improve yield
- industry-leading parallelism and UPH for MEMS test



Test Cell Solution



MEMS ICs

Highest Parallelism and UPH

- test more than 200 sites in parallel
- better than 99.5% PTE
- reliable strip handling for higher OEE

InStrip Flexible Handler Platform

- modular system supporting wide range of MEMS applications
- InCarrier for singulated MEMS test with strip-like parallelism and reliability
- supports smallest packages and WLCSP
- up to 1200 or 2400 I/O, covering widest range of parallelism
- -40°C to +125°C (Optional: 150°C) for automotive applications

Diamond_x Next-Generation SOC ATE

- high density Digital, DC, MXSL or RF
- IMA scalability for highest parallelism
- lowest Cost of Ownership (CoO) for SOC test

Full Ownership of Interfacing and Signal Management

- integrated reference sensors for highest stimulus and temperature accuracy
- sensor stimulus with leading-edge settling times versus competitors
- integrated and pre-validated test cell for fastest time to volume and target OEE/yield

High parallelism MEMS Stimulus Options

- InFlip M for 6DOF Accelerometer and Magnetometer
- InGyro M for 6/9DOF Gyroscope, Accelerometer and Magnetometer
- InPressure for TPMS and absolute pressure sensors up to 20 bar
- InBaro for absolute barometric pressure sensors
- InHumid InBaro upgrade for humidity sensors and 3D environmental MEMS
- InPhone for MEMS microphones
- InOptic for light, UV, IR and reflection sensors



Complete MEMS Test Cell with Closed-Loop Stimulus and Tri-Temp Control

