

Test Cell Solution



Complete Test Cell for Automotive Radar ICs

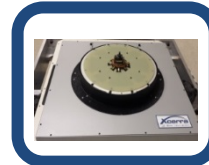
**“Out-of-the-box”
guaranteed 81GHz performance at
the DUT pin**

**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



**76-81GHz upgrade on
scalable LTX-Credence
X-series platform**



**Multitest proprietary
contacting solution:
mmWave**



**Multitest tri-temp
MT9510 pick & place
handler with standard
conversion kit**

Customer Benefits

- guaranteed signal integrity and performance at the DUT pin
- guaranteed electrical and tri-temp thermal performance
- in-socket calibration to validate test cell performance



Test Cell Solution



Complete Test Cell for Automotive Radar ICs

Only Fully Integrated Solution in the Industry

- at speed test of 76- 81 GHz radar signals (transmit and receive)
- all components from one supplier (test solution, test board, contactor and handling)

Guaranteed Signal Integrity

- impedance controlled signal path from DUT to instrument
- calibration up to the device pin

Proprietary, Unique Contacting Solution

- eliminates PCB interface for mmWave signals
- production ready hybrid pogo/cantilever design

Handler Supports Tri-Temp Testing for Automotive

- insulation technique maintains temperature within +/- 2° C
- standard conversion kit compatible with hybrid contactor design

True volume Production Solution Offers Higher ROI

- flexible solution developed using standard & proven MX ATE, contacting, and handling instrumentation
- reconfigurable for a range of automotive applications

Signal Path Optimization

RF Instrument ↔ Test Board ↔ Contactor ↔ DUT

- design and simulation of the complete signal path
- minimizes connection interfaces and maintains required 81 GHz signal quality and robustness for production
- integrated interface design reduces signal transitions by factor of 3
- measurements confirm simulation results: -10dB return loss @ 81GHz

