

# Test Services



## Complete Manufacturing Services

Carsem provides a full range of test solutions and services for RF, mixed-signal, analog, digital and power devices. The percent of assembled units we test is one of the highest in the industry.



### Total dedicated test space in excess of 110,000 ft<sup>2</sup>. (10,200 M<sup>2</sup>)

- M-Site = 14,000 ft<sup>2</sup>. (1,300 M<sup>2</sup>)
- S-Site = 86,000 ft<sup>2</sup>. (8,000 M<sup>2</sup>)
- Suzhou/China = 5,000 ft<sup>2</sup>. (450 M<sup>2</sup>)



### Newly expanded wafer probe area

- Up to 8" with Hot Chuck
- Inkless Wafer Map
- Automatic Fail Probe Mark Inspection
- Wafer ID Reading
- In-house Probe Card Repair
- Probe Equipment: TEL P8XL, KLA, EG2080, TSK UF200, A-PM-90A



### Over 400 Test Systems

- Agilent: HP84000
- Credence: ASL: 1000, 3000, 3000RF
- Eagle: ETS-364, 564, 500D and 300
- LTX: Fusion CX, TS88
- Teradyne: Catalyst(RF), A585/575/567/565/530/360



### Complete Handler & Socket Solutions

- Handlers: SRM, Rasco, Multitest, Ismecca, Hontech, Deltaflex, Synax, Seiko Epson, Aetrium, MCT
- Sockets: Kelvin, plunge to board/socket, Johnstech, ECT, Oztek(K&S), Plastronics, Synergetix, Cerprobe, Loranger, Rika Denshi, RCTech, Unitechno

### Additional Services Include:

Dry pack, Tape & Reel, Bar Code, Finished Goods Inventory, Drop Ship

# Test Services

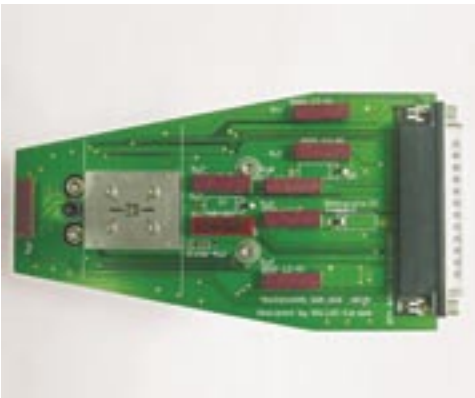
## Value Added Engineering Support Services

In addition to our comprehensive manufacturing services, Carsem's extensive test engineering staff provides complete test program/hardware development services, program conversions as well as complete product engineering support including program debug, correlation, low yield analysis and test time reduction.



## Test program and hardware development

- RF Calibration & Instrumentation Lab
- Remote Customer Access Test Development via direct Virtual Private Network connection
- Process/systems methodology for development of software and hardware solutions
- Efficient Project Milestone Tracking & Reporting
- Focus on fastest time to market with lowest cost of ownership
- Turn-key tester, handler, load board and socket solutions with optimum throughput
- Expertise in mixed-signal, analog, power management, digital and RF devices



## Product Experience

- **RF:** Bluetooth™ modules, WiFi devices, Power Amp/Attenuator, Transceivers
- **Power Management:** Voltage Regulator, EcocoReset, Prog. Sync. Buck Controller
- **Digital/Logic/Memory:** Bus Switches, Logic Gates, Add-on Memory
- **Analog Mixed-signal:** Audio/Video, Converters, Sensors, Precision References

## Product Engineering Support

- Final Test Yield Enhancement
- Test Time Reduction
- Single to Multi-site Conversion
- Program Debugging & Low Yield Analysis
- Correlation & Qualification Services
- Product Failure Analysis (X-ray, Decap)

## Malaysia

Ipoh (M-site)  
tel: 60-5-3123333  
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## Malaysia

Ipoh (S-site)  
tel: 60-5-5262333  
fax: 60-5-5265333

## China

Suzhou  
tel: 86-512-6258-8883  
fax: 86-512-6258-8885

## Europe

UK  
tel: 44-1793-853888  
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## USA

Silicon Valley  
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## USA

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## USA

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