# Service Solutions

# Test Development

## Test Development

Amkor development centers provide cost effective, complete test solutions and engineering services ranging from project management, test programs, hardware/contacting, characterization, supporting customer's prototyping/sampling needs and production ramp. Amkor has an extensive team of senior test engineers with experience in mixed-signal, memory, high-end digital, power management and RF. Amkor also offers expertise in defining test strategies on complex products with distributed test flows and can assist in development of test specifications.

### Why Develop with Amkor?

- Reduces opportunity cost – extends test software/hardware & product engineering
  - Low cost, robust solutions with high first pass yield
- 'One stop shop' – ownership/accountability
- Complete technology linkage
  - Advanced bump & packaging + precision – contacting/ handling/probing
  - "Tight" co-location & complete program management
- Three development centers (US, Korea & Philippines) – one project process
- Support from multiple ATE companies

### Typical Solutions

- Advanced wafer probe
- Low cost RF probe
- Hardware (contactor, load board, probe card, handler kits)
- Robust contacting solutions aligned with Amkor's bump & package roadmap
- Novel test solution for low cost, bottom PoP (Package-on-Package)
- SiP module test strategies (including in-line test)
- Automation of system level test solutions
- Program conversion
- Multi-site test
- Strip test for punch and saw devices (low mix/high volume)

**Visit Amkor Technology online for locations and to view the most current product information.**

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**Questions? Contact us: marketing@amkor.com**

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## Full Test Solutions Developed by Amkor

### Communications

- GPS, DVB-H, T-DMB, ISDBT receivers, demods, base bands, SiP, SCSP
- Dual sided PoP ( package on package ) contactors, 2G/3G baseband
- Advanced media processor SoC(s)
- Quadsite celluar Tx front end SiP modules
- GPS receiver and baseband
- BlueTooth SoC radio RF probe – WLCSP die sales
- Multiple die/system in package solutions for OEM(s)
- Cellular power amplifier + transceiver modules, SiP, HEDGE
- LNA, video amplifiers & drivers
- Noise cancellation

### Consumer

- Biometric sensors, MEMS, Qquad site fingerprint sensor
- x16 Power FET & op amp solutions
- MOSFET strip test
- x32 memory card solutions
- LVDS timing controller LCD/PDP display
- Image stabilizer & processors, Digital Still Camera (DSC)
- USB2.0 /MP3 processor
- Hard disc controller
- Microcontrollers
- Compass IC
- Optical mouse sensor
- Power management, chargers/charging, control and filtering/conditioning

### Amkor Test Development Engineers Support a Wide Variety of ATE Platforms

| ATE | MS | RF | Digital | Memory |
|---|---|---|---|---|
| Verigy 93000 | X | X | X | |
| Advantest T2000 | X | X | X | |
| Teradyne Flex & UltraFlex | X | X | X | |
| Teradyne Catalyst | X | X | X | |
| Teradyne J750 | X | | X | |
| LTX CX & MX | X | X | | |
| Credence ASL3K, ASL1K | X | X | | |
| Eagle 364 | X | | | |
| Teradyne NexTest Maverick | | | X | |
| Teradyne NexTest Magnum | | | | X |
| Amkor RFT | | X | | |
| LT/Duo/Quartet | X | | X | |

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