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TOETS: Work Package 1

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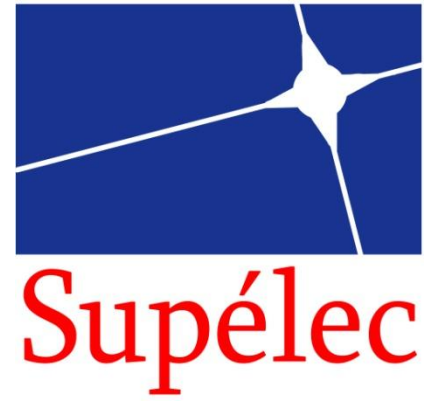
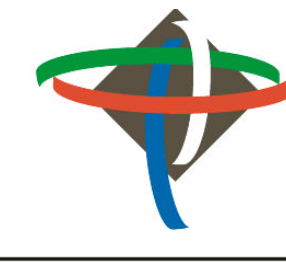
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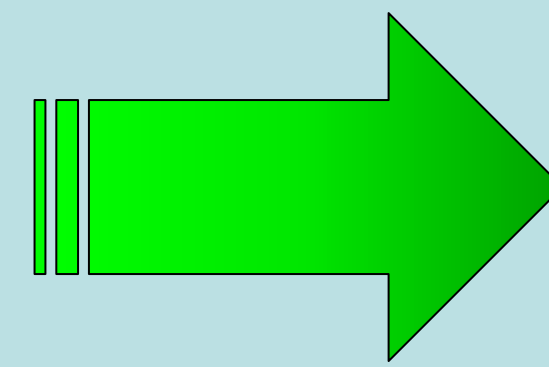
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Goal: Transform Test features into product Differentiators



Enhance Access and Control
Self-repair solutions
Self-calibration functions



To the integrators
To end-users

Major Achievement: Wireless Test Access *

**SiP-SoC
Production
Test**

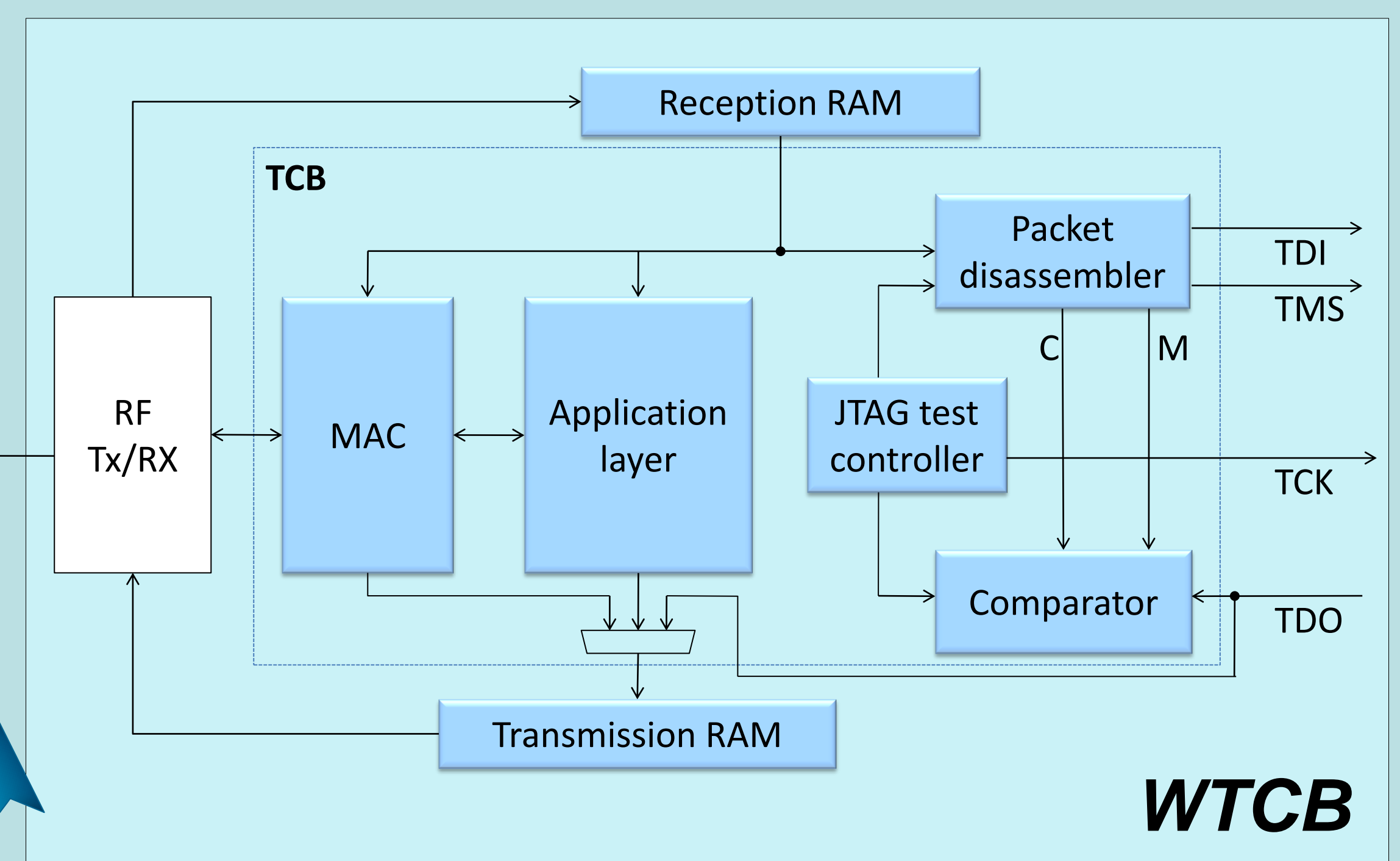


■ **Specific MAC layer: low power, minimal area overhead, reliability**

- ✓ Embedded Wireless Test Control Block (WTCB)
- ✓ Test management at circuit level
- ✓ Generic test access

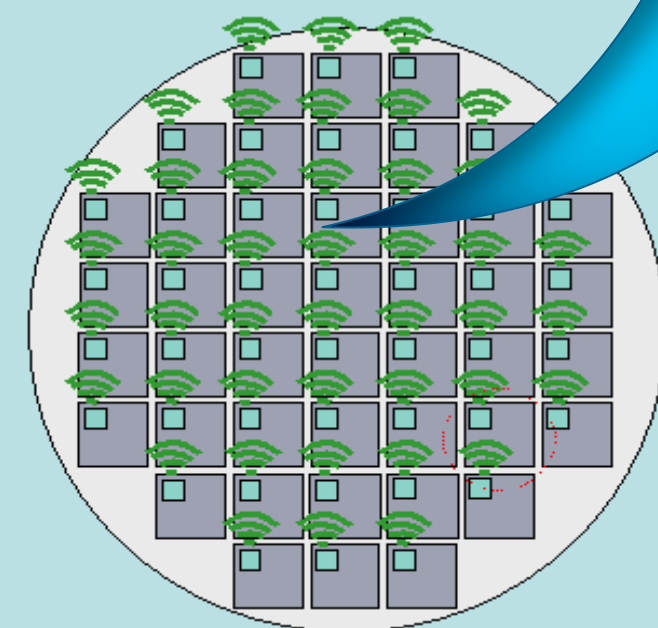
■ **Adaptive Test Response Handling**

- ✓ Centralized Comparison on ATE for full diagnostic
- ✓ Distributed Comparison on DUTs for test time reduction



■ **Massive parallel test**

➔ Test time reduction by 4-5



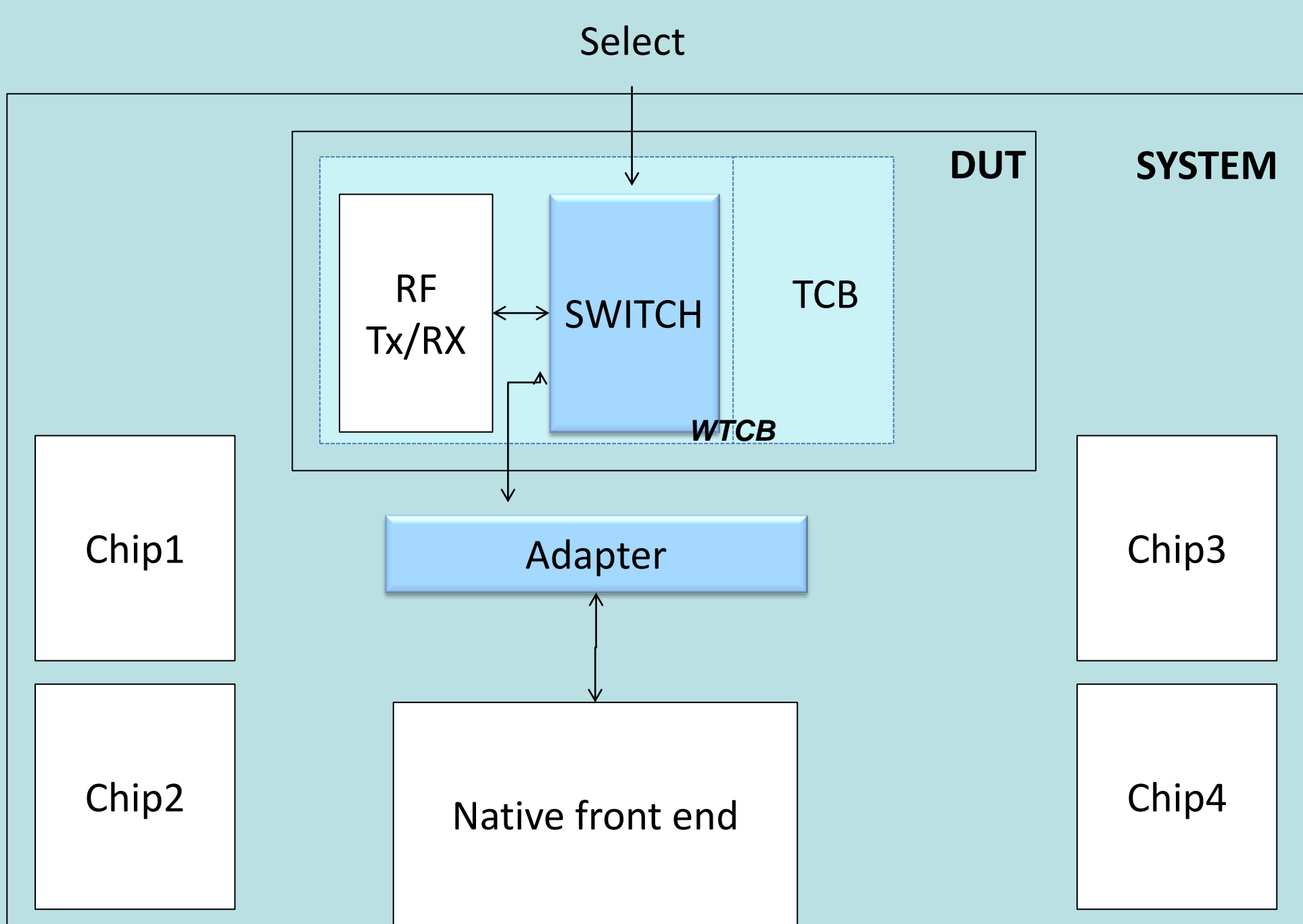
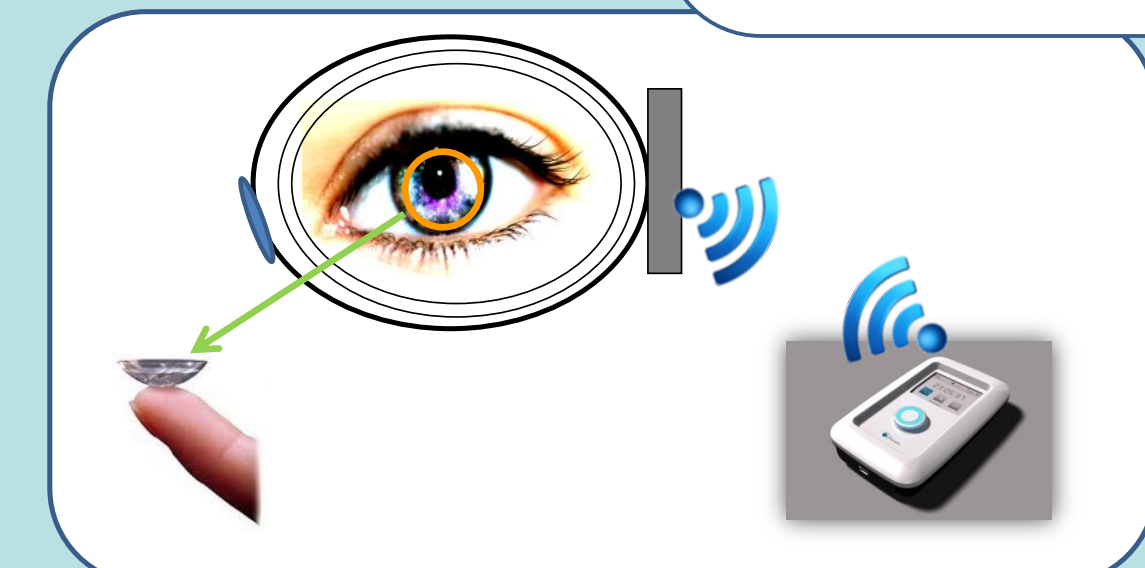
**In-Situ
Test**

■ **In Situ/On-line Tests & Diagnostics**

- ✓ Easy maintenance
- ✓ Low cost diagnosis

■ **Switch**

- ✓ Reuse native wireless frontend
- ✓ Minimal area overhead



* Works conducted by LIRMM and Optimalia