

SMT Assembly Factory Audit Checklist

What Every Electronics Buyer Should Review Before Cooperating

1. Quality System & Certification

- ✓ Is the factory ISO 9001 certified?
- ✓ Are RoHS and REACH compliance documents available?
- ✓ Is there a dedicated QC/QA department?

Look for traceability documents and process control plans.

2. Equipment & Process Capability

- ✓ Does the factory have automated SMT lines (Pick-and-Place, Reflow Oven)?
- ✓ Are X-ray inspection and AOI available?
- ✓ Check for machine brand and maintenance records

Well-maintained machines = stable solder joints + fewer defects.

3. Workforce & Technical Skill

- ✓ Are operators trained and certified?
- ✓ Is there an on-site engineering team?
- ✓ Can they handle BGA, QFN, fine-pitch components?

Skilled teams reduce rework, especially in low-volume prototyping.

4. Testing & Inspection Capabilities

- ✓ Visual inspection? AOI? ICT? Functional Test?
- ✓ Are inspection reports archived and traceable?
- ✓ Can they provide customer-specific test procedures?
- ✓ Testing defines the factory's commitment to reliability.

5. Material Management

- ✓ How are electronic components stored? (Humidity control?)
- ✓ Is there FIFO (First In First Out) inventory practice?
- ✓ Can they manage customer-supplied parts?

Material control affects both quality and delivery speed.

6. Lead Time & Flexibility

- ✓ What's their standard lead time for SMT assembly?
- ✓ Do they offer quick-turn or no-MOQ services?
- ✓ Can they handle engineering changes quickly?
- ⚡ Flexibility is key for fast-moving product development cycles.

7. Intellectual Property Protection

- ✓ Does the factory sign an NDA?
- ✓ Is access to client files limited?

✓ How are data backups and designs protected?



IP protection is critical, especially for startups and innovators.

✓ Final Tip:

Always combine on-site visit + documentation review.

Or ask UnitCircuits to provide a remote factory audit report with photos and sample certifications.

Want a Reliable, Audited EMS Partner?

We provide:

- ✓ SMT Assembly with No MOQ
- ✓ Component Sourcing & BOM Support
- ✓ Fast Quote & Delivery to Europe, Canada, Australia

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