

LinkPCBA PCBA Assembly Capability 2025

Ensuring Precision, Efficiency, and Reliability in SMT & DIP Assembly

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1. SMT & PCBA Capability Overview

All capability data verified by Yamaha SMT system reports and MES records.

Item	Min	Max
PCB Dimension	50 x 50 x 0.6 mm	400 x 339 x 3 mm
Special PCB Size	590 x 280 x 3 mm	—
PCB Weight	—	1.8 kg
Materials	—	FR-4, CEM-1, CEM-3, Aluminum-based, FPC
Surface Finish	—	HASL, OSP, Immersion Gold, Flash Gold, Gold Finger

2. Component Placement Range

Precision validated through Omron AOI and X-ray inspection systems.

Component Type	Min	Max
Chip / IC	01005 (0.6 x 0.3 mm)	22 x 22 mm
Connector	1.6 x 0.8 mm	72 mm
BGA Pitch	0.3 mm	1.0 mm
QFP Pitch	0.3 mm	1.0 mm

3. SMT Equipment Performance

Each SMT line is equipped with Yamaha YS24/YS12F high-speed mounters, integrated with MES for traceability.

Component	Speed (CPH)	Accuracy (mm)	Camera Type
1608 / 1005 / 0603 Chip	52K/H	±0.04	Fly Camera
SOP16	30K/H	±0.10	Fly Camera
QFP100	20K/H	±0.03	Fixed Camera
QFP256	10K/H	±0.03	Fixed Camera
BGA	10K/H	±0.03	Fixed Camera

4. Production Lead Time

Lead times vary depending on order complexity and component sourcing; flexible expedite service available.

Product Type	Qty	Normal Lead Time	Quick-Turn Lead Time
SMD + Connector	5–200	6 WD	3 WD
SMD + Connector	201–2000	7 WD	7 WD
SMD + Connector	≥2000	7–9 WD	8 WD
SMD + DIP	5–200	5 WD	4 WD
SMD + DIP	201–2000	7 WD	5 WD
SMD + DIP	≥2000	8 WD	6 WD

5. SMT Line Highlights

- ±0.035 mm chip placement accuracy (01005 microchip capable)

- High-speed feeders and intelligent vision calibration
- Dual-camera alignment system (Fly + Fixed)
- Real-time MES data feedback for full traceability
- Full ESD and humidity control environment
- Supports both leaded and lead-free reflow soldering

6. Quality & Certification

- Operating under ISO9001 and IATF16949 Quality Management Systems
- Full RoHS & REACH compliance
- First-pass yield >99.8% verified via MES database
- AOI, SPI, X-ray, ICT, and FCT inspections for every batch

7. Global Support & Applications

LinkPCBA provides flexible SMT and DIP assembly services for OEM and ODM clients worldwide, covering Automotive, Medical, IoT, and Industrial Control sectors.

8. Contact Information

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