

PCBA ASSEMBLY

From Your BOM to a Tested Assembly



Engineering and NPI

Design and manufacturability reviews connect prototypes, pilot builds and repeat production. Assembly drawings and test requirements are reviewed before the production handover.

SMT and through-hole assembly

The manufacturing network supports surface-mount and DIP assembly. The Dongguan production brief includes 01005 components and 0.3 mm-pitch BGA capability.

Component readiness

Purchasing and engineering teams support supplier selection, component testing reports, alternative-part evaluation, material selection, volume pricing and BOM standardization.

PROCESS AND QUALITY

Inspection Throughout the Build

Production equipment

MES production management, solder paste inspection, SMT placement, automated optical inspection, first-article inspection, X-Ray inspection, automated depaneling, dispensing and curing support the assembly workflow.

Four layers of quality control

DQA covers design review and test planning. PQE covers incoming materials, first articles and in-process checks. OQA covers final inspection and release. After-sales quality feeds failure analysis and corrective actions back into the process.

Test planning

SPI, AOI, X-Ray, ICT and FCT coverage is agreed according to the product. Environmental and aging tests are selected against the intended operating conditions and acceptance criteria.

Quotation checklist

Send Gerber or ODB++ files, the BOM with manufacturer part numbers, assembly drawings, quantities and the required delivery date. Include supplied parts, approved alternatives, programming requirements and functional test instructions.

Discuss your build: sales@one-stop-mfg.com