



PCB ASSEMBLIES

Star Werks specializes in many different types of Printed Circuit Board Assemblies (PCBA) including surface mount and through-hole population, lead free and leaded, no clean and clean. Many projects have a requirement for high durability with an extended operation temperature of -35° to 85°C . PCB assemblies are serialized, lot/batch code, and date coded labeled.

These PCB assemblies also include custom product packaging, barcode labeling, and a turnaround time of less than a week once released to production. Star Werks currently produces over 250,000 PCB assemblies per year.



Capabilities Applied/Process	Flex Assembly Single sided PCB population Double sided PCB population Ridged, Halogen free, multilayer PCBA Surface Mount Component Population Through Hole Component Population Reflow Soldering Wave Soldering Hand Soldering No Clean Solder Process Water Soluble Solder Process Automatic & Slective Conformal Coating Custom & Standard product packaging Barcode Labeling Serialized, Lot/Batch Code, Date Code labeled Onboard Programming – Firmware download Lead Free, Environment Friendly, RoHS compliant Dome Switch assembly in clean process using ionizing equipment
Equipment Used to Manufacture Part	SMT Adhesive Screen Printer Solder Paste Screen Printer with auto-loading & cleaning Pick & Place (20,000 parts per hour) Chip Shooter Reflow Oven with 8 zones Axial Component Inserter Wave Solder Machine AOI - Automatic Optical Inspection ICT – Product specific In-Circuit test of components FCT – Product specific functional test of components & functionality Ultrasonic Distilled Water Cleaner



	Automatic Conformal Coating Machine
Special Material Used	BGA QFN QFP 0201
Industry for Use	Government and private industries with a demand for professional PCB assemblies
Product Volume	>250,000 annually
Delivery/Turnaround Time	<1 week
Delivery Location	Global: North America, Europe, and Asia
Manufacturing Location	USA and Asia
Standards Met	IPC-A-610 FCC CE RoHS, WEEE, CMM UL