
SERVICE

Jesen offers our customers a total solution for printed circuit boards and backplane assemblies with services ranging from design to volume production. We believe that quality comes from excellent design. Proof of design that evolves to an unsustainable full concept is disastrous. Our customers capitalize upon Jesen's breadth of engineering experience across the product life cycle. Our integrated engineering teams work to provide a complete picture of your product, from the testing of your vision through dependable full-scale production.

Design

It is our aim to provide a quality service that can support our customers and bring their products into production. We believe the way to achieve this goal is to form a close relationship that will help exchange information efficiently, and use our many skills to produce superior designs.

Quick Turns

Every manufactured PCB is produce by following the guidelines and systems laid down in our ISO 9001:2008 quality approval and UL Approval. Quick Turnaround PCB Prototyping is a major part of Jesen's business model, offering our customers the ability to move their product into production as quickly as possible.

Procurement

Our procurement team is expert in sourcing and kitting electronic components from outlets around the world, with strong trading relationships and significant buying power through leading electronic component manufacturers and franchised distributors, we are well placed to service your every need.

An extra service we offer is to check the credentials of certain components, this is an effective resource especially where counterfeit components maybe suspected.

Assembly Services

We provide PCB assembly procedures to comply with lead-free and RoHS PCB assembly standards. Also, we specialize in Quick-Turn prototype PCB assembly, small quantities production PCB assembly with surface-mount (SMT), through-hole (THT), and mix components.

1. SMT/BGA/DIP assembly
2. Full component procurement or the substitute components sourcing
3. Wire harness and cable assembly
4. Metal parts, rubber parts and plastic parts including mold making
5. Mechanical, case and rubber molding assembly
6. Functional testing

Final Test

1. Flying Probe Test

Most flying probe testers conduct signal integrity testing on populated boards, test open pins on ICs, and measure resistor and capacitor values, as well as check for shorts and opens on inductors, diodes, MOSFETs, relays, and transformers.

Flying probe is often used to validate line set-up without the cost and cycle time related to designing and building traditional bed-of-nails fixtures. Hence, flying probe can provide fast turn-around and high fault coverage benefits, but without the test fixture cost, which can sometimes run into outrageously high numbers.

2. ICT Test

ICT is the most tedious, cumbersome, and expensive type of testing. Creating an ICT fixture can cost from \$5000 to \$50,000 and 2-4 weeks of fixture build time. However, ICT is ideal for mature products requiring high volume production. It runs the power signal to check voltage levels

and resistance measurements at different nodes of the board. ICT is excellent at detecting parametric failures, design related faults and component failures.

3. Functional Test

OEM customers can benefit greatly by working with a knowledgeable EMS provider. The main reason is an experienced and savvy EMS provider draws from its experience base and makes valuable suggestions relating to different reliability techniques and standards. Consequently, an EMS provider is perhaps in the best position to help an OEM evaluate its test options and suggest the best test methods to improve product performance, manufacturability, quality, reliability, and most crucial, cost.

Base materials / Laminates used anual volume	
Material Type	Material Grade
Shengyi: 216,000 sq.m.	Conventional FR-4: S1141 150,S0401 150 Lead Free Compatible FR-4: S1000-2M/S1000-2MB,S1000 S1000B,S1000H S1000HB... Halogen Free FR-4: S1150G,S1150GB,S1165/S1165M,S0165 CEM-3: ST210G,S2130/S2130JB,S2131/S2131JB... CEM-1: S3155G,S3110,COB714... Al-based CCL: SAR20,SAR15 Thermal Conductive RCC: STR15 Thermal Conductive FR-4: ST115,ST115B Auto: Autolad3,Autolad1 IC Substrate: SI546
Kingboard:70,000 sq.m.	Halogen-free FR-4: HF-140 FR-4: KB-6150/6160,KB-6150/6150C,KB-6160/6160A/6160C,KB-6160... CEM-3: KB-7150/7150C,KB-7150T,KB-7152 CEM-1: KB-5150L ,KB-5150/KB-5150A/5150&,KB-5150G,KB-5252 22F: KB-5152
Isola:20,000 sq.m.	Lead Free Compatible: FR408,370HR Halogen Free: DE156,Green Speed,TerraGreen
Rogers:20,000 sq.m.	RO4000 Laminates: RO4003,4350,4450
Taconic:34,000 sq.m.	TLX-8,RF-30,TLX-9,TLX-0,TLC-30
Others:	

Solder mask supplier and type	
Material Type	Finish
Taiyo	PSR-4000 / PSR-2000
Tamura	DSR—2200GX-37,DSR-2200C-7BSX,Tamura DSR-2200C-8M
Nanya	Wet Film: AUS5/303/308/320(Green/Black) Dry Film: AUS410/SR1/SR2
More...	

Chemical Materials Vendor



Solder Mask Vendor

