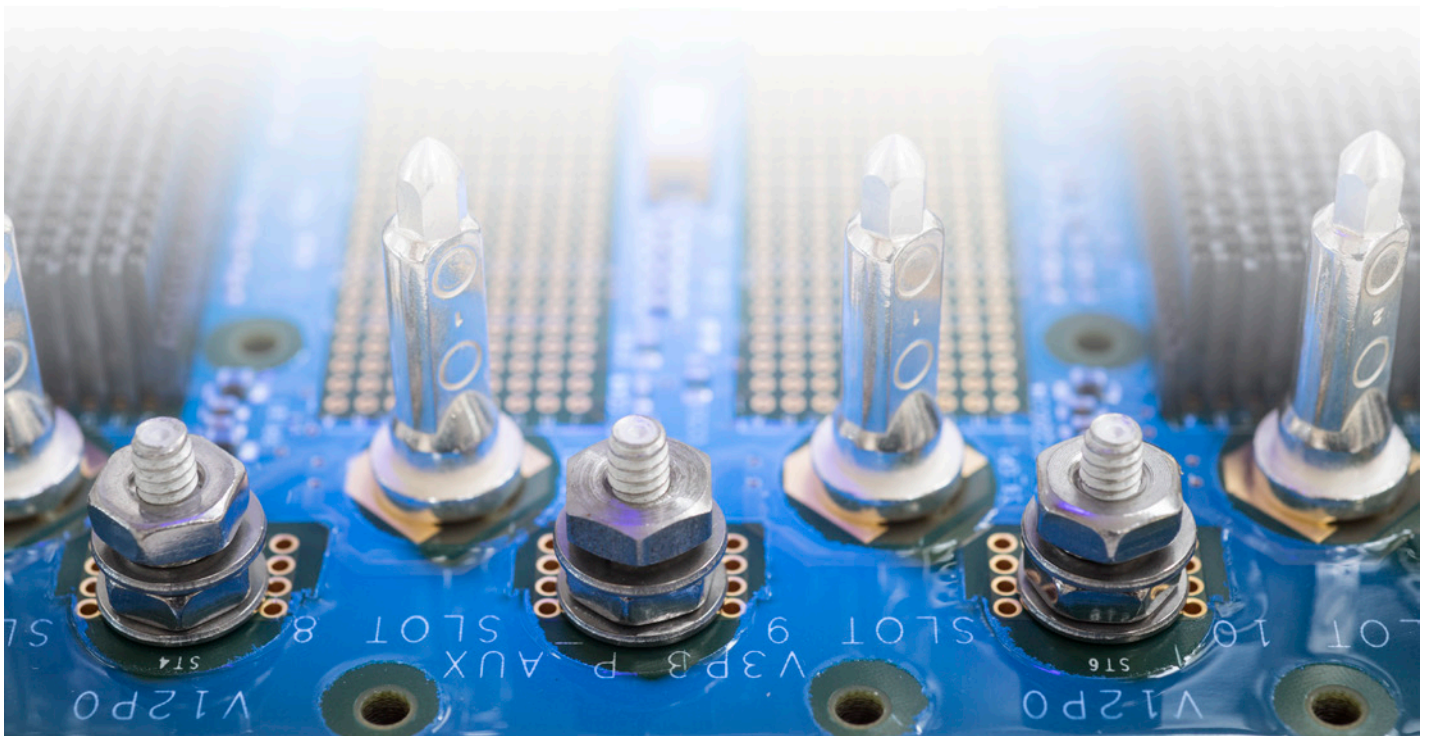
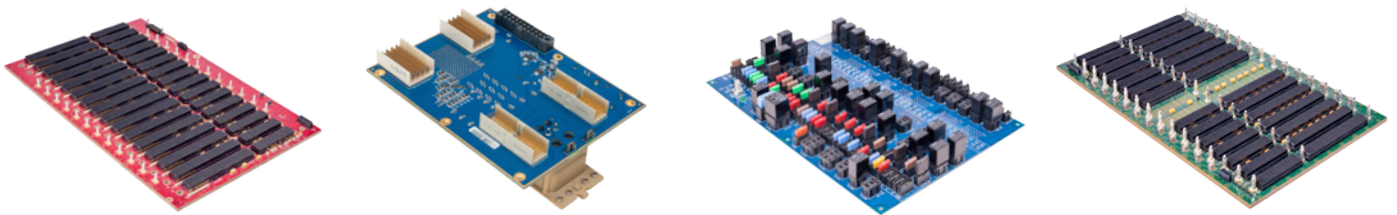


ERNI USA Manufacturing Services

■ **SPECIALIZING IN AUTOMATED ASSEMBLY,
BACKPLANE ASSEMBLIES & MORE...**



WE MAKE IT EASIER FOR YOU.

www.erni.com



Automated Assembly Services & More

■ LOW VOLUME, HIGH MIX

Quick-turn manufacturing, test and support services

ERNI USA provides manufacturing and support services for military and electronics OEMs with special product requirements, performance specifications, test parameters and supply chain needs. With expertise in pressfit technology (semi- and fully automatic), ERNI specializes in fully assembled and fully-tested printed circuit boards. ERNI USA provides the services OEMs need to keep their development projects and special production runs on schedule.

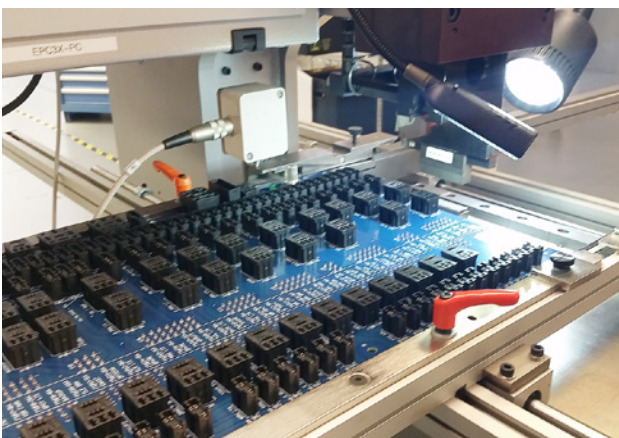
- Board assembly services
- Board design and layout
- Prototype services
- Design for manufacturability (DFM)
- Military certifications
- Test validation services
- Labor only services
- Bill of materials analysis
- Component management
- Consignment inventory



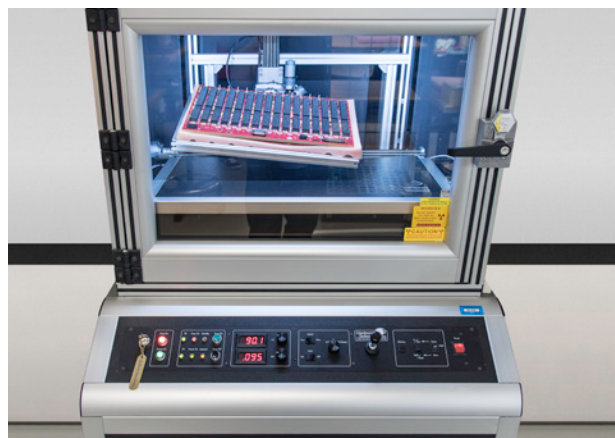
Fully automated SMT line with pressfit technology



SMT line processes boards up to .287" thick



Quick-turn PCB fabrication, press fit, PCB thickness monitoring, lower board support tools, active press-force monitoring, with same day turnaround available



X-ray inspection with heavy-duty gantry, handles thick, double-sided PC boards weighing more than 10 pounds



High Quality Assemblies for Demanding Applications

■ UNIQUE ASSEMBLIES, UNUSUAL QUANTITIES

From new product introduction to volume manufacturing

ERNI USA specializes in the manufacturing of high quality low-to-mid volume, high-mix PC board assemblies. Focused on satisfying unique OEM requirements, ERNI USA produces high-quality board assemblies for manufacturers of radar equipment, commercial airplanes, drones, fire trucks, off-highway and other military/industrial equipment.

Quick-turn PCB fabrication

1-5 day turn-around service available

Assemble any component from any manufacturer

No tooling charges when ERNI connectors are used

Reduced material costs when ERNI connectors are used



Automotive



Industrial



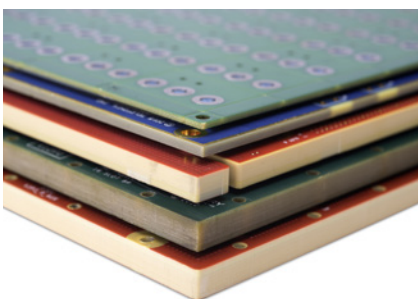
Medical



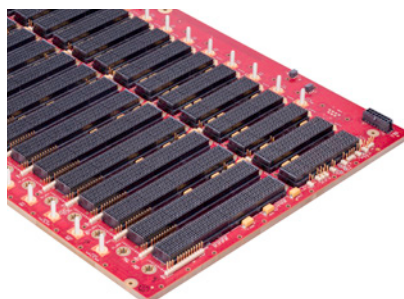
Power/Energy



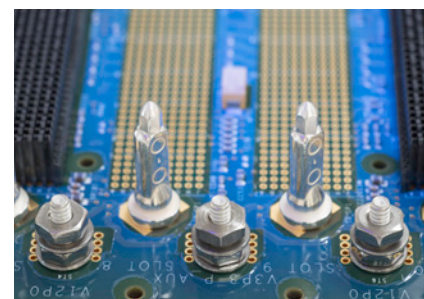
Military/Aerospace



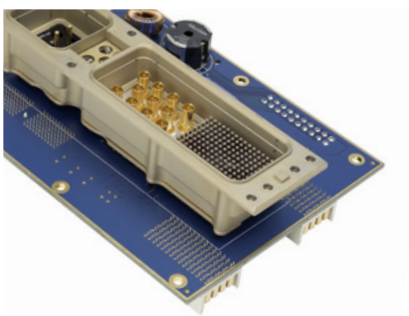
ERNI USA processes larger boards of thicker material up to .287" thick for mil/aero, instrumentation, and industrial applications



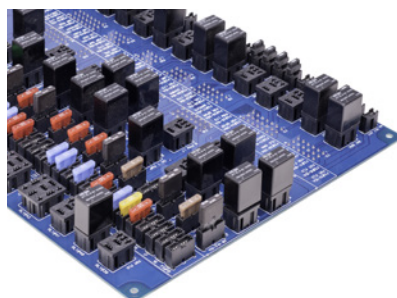
24"x11" double-sided VPX backplane assembly for military application



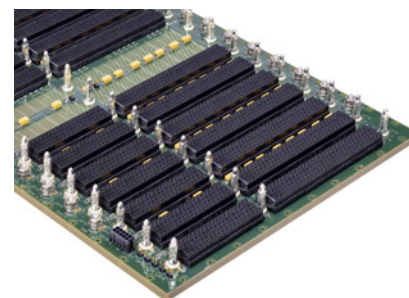
Board assembly with conformal coating for military application



Double-sided board for mil/aero application



Backplane board designed by ERNI USA for transportation application, replaced hundreds of feet of cable, reduced weight and cost and saved significant production time.



16"x11" VPX board assembly for military application



Net-list Testing Coverage

■ QUALITY GUARANTEED

Automated optical inspection and automated electrical testing

With ERNI Manufacturing Services, there is no risk of a bad board reaching the customer's end product. 100% Net-list testing goes beyond AOI and bed-of-nails testing. ERNI's quality control process and automated equipment provides serialized data that is traceable at a cost far less than standard testing solutions. Any pitch, any connector, any size backplane can be processed, produced and tested with minimal NRE changes in less time.

100% electrical testing on
RoBAT S1 backplane fixtureless test

Serialized data that is traceable

Tooling for all connector types

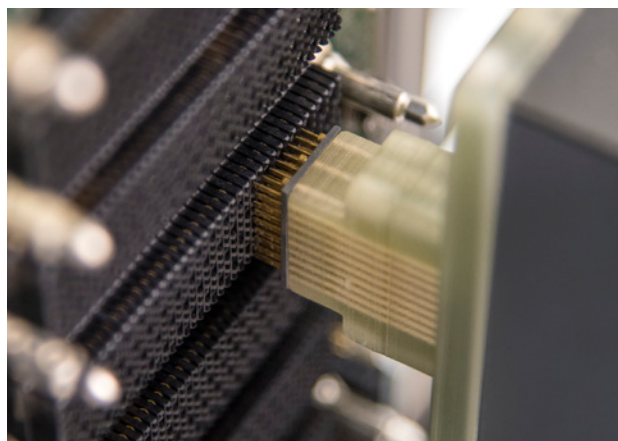
Double sided board testing

AOI image processing

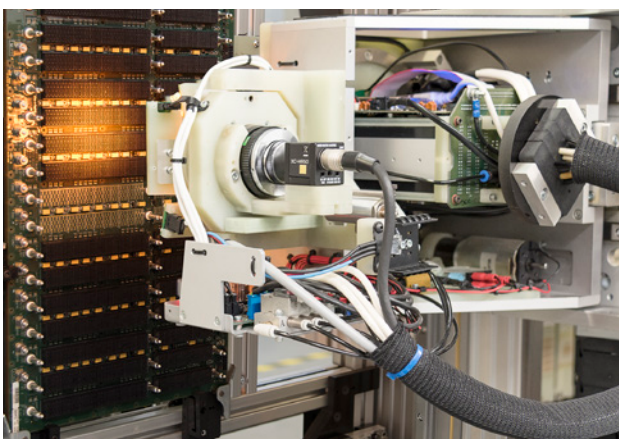
Real-time monitoring



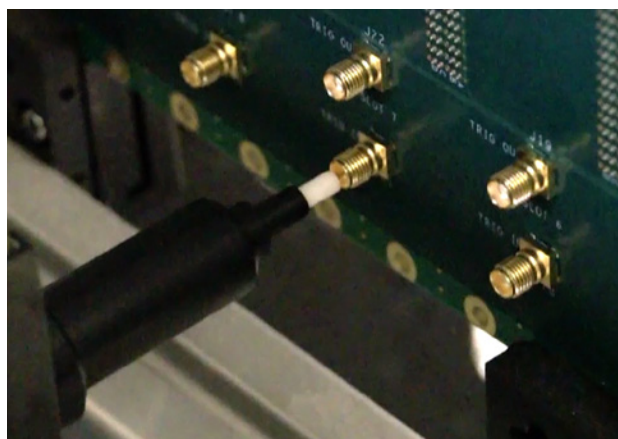
RoBAT S1 automatic optical inspection and fixtureless electrical test in one machine simulates daughter card plugging into backplane or mother board



Electrically tests each connector contact point and solder point throughout the entire signal path



Provides AOI including scanning for bent pin, missing pins, rotated components and unseated connectors



Unique test probes for back plane connectors, RJ45, coaxial connectors & more



More Services — More Assemblies

■ LOWER COST IN LESS TIME

Cable Assemblies for Every Application

ERNI USA provides wire and cable assembly services for automotive, medical, rail, commercial vehicle and military applications. For integration into sub-rack, housings, enclosures, or panel applications, ERNI wire assembly, ribbon cable assembly and component services include discrete wire processing and 100% electrical test. Quick solutions at lower costs, ERNI makes it easier for you.

Discrete wire processing

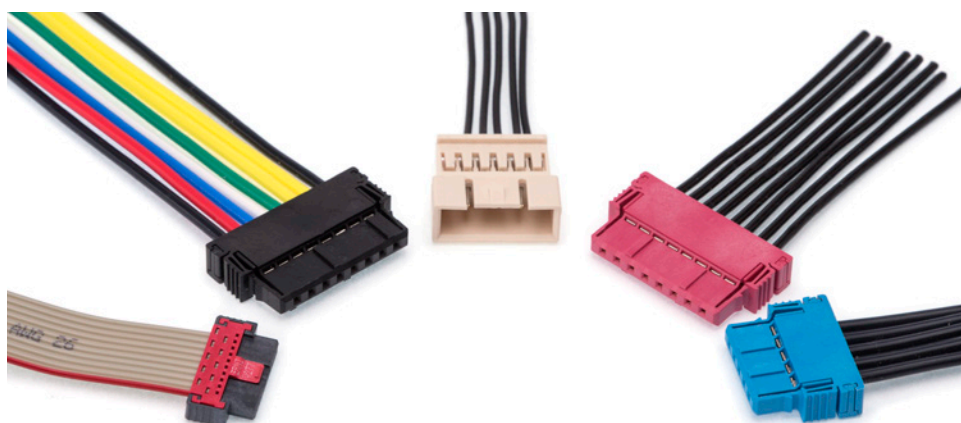
Ribbon cable assemblies

FPC cable assemblies

Custom board adapters

Electronic assemblies

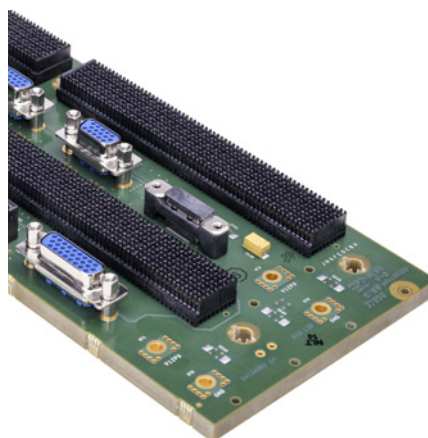
Component assemblies



Complete cable preparations, contacting, assembly, testing and labeling capabilities



PCB solution to simplify military switch wire assembly



ERNI USA manufacturing services include complete supply chain BOM analysis, component management and consignment inventory

ERNI Manufacturing Services Makes it Easier for You.

■ HOW CAN ERNI HELP YOU TODAY?

Reduce cost – Save space – Reduce weight – Save time – Reduce inventory

- Turnkey PCB assembly
- Design For Manufacturability
- Testing services
- Quote for prototype, new product introduction or production

ISO 9001 certified

IPC-A610

IPC-A610 certified trainer
and operators on staff

IPC-J-STD

IPC-7711/7721 rework

Registered with the
Department of State
(ITAR/EAR)



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