LCR | EMBEDDED SYSTEMS, INC. ®

Helping our customers achieve their mission.
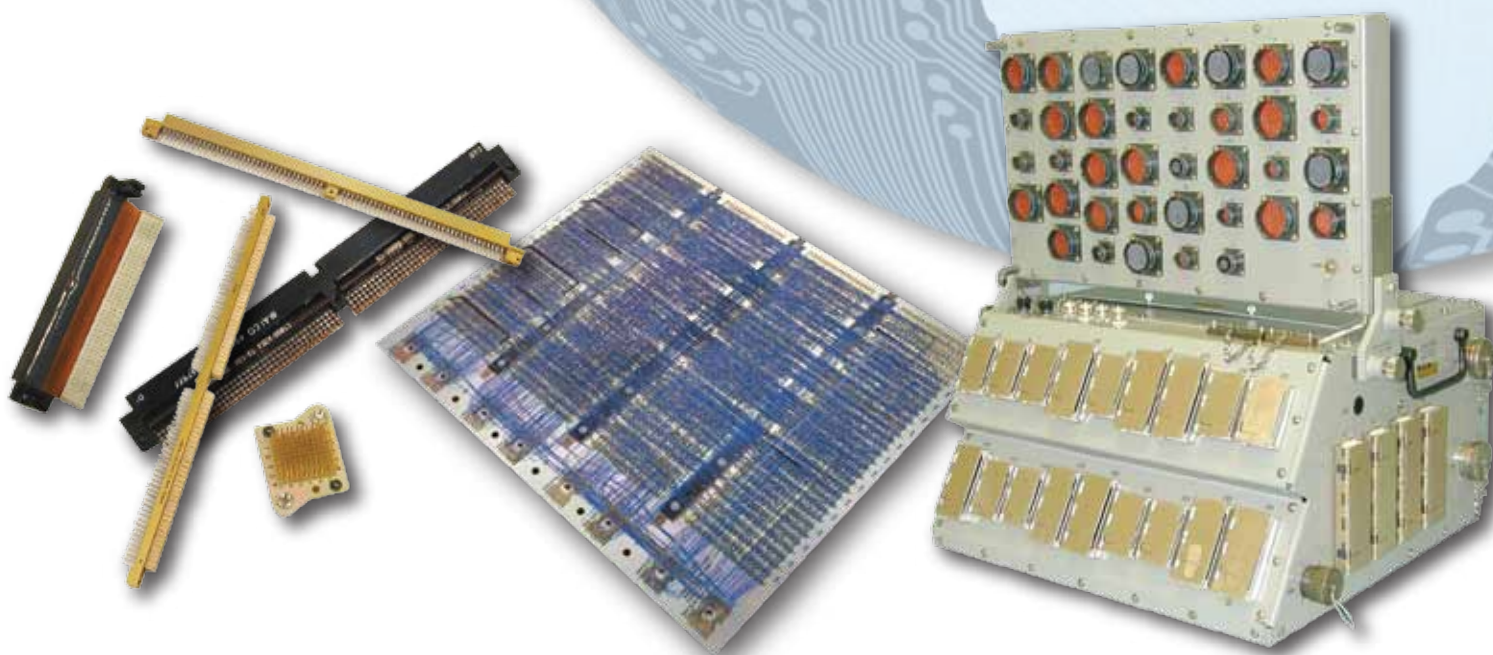
Legacy
Technologies

Wire Wrap • NAFI Headers • Build-to-Print

Enabling our customers to get the most out of their existing legacy solutions without costly recertification and testing

Support for Legacy Technology

LCR Embedded offers a full suite of future-facing design, engineering, and manufacturing capabilities to our customers. Nevertheless, we remain committed to supporting our customers' legacy systems as well, as shown by our recent acquisition of two new state-of-the-art computerized wire-wrap machines.

Our years of experience, coupled with LEAN and Six Sigma manufacturing practices, maintain wire wrap's position as an affordable solution for our customers — especially when compared to costly upgrades and re-qualifications. We offer an array of wire wrap options, including MIL-C-28754 automatic contact insertion, and automatic/semiautomatic wire wrap in accordance with MIL-STD-1130 and NAFI headers (daughter card connectors).

General Features

- Automatic, semiautomatic, and hand wire wrapping
- Total wire wrap capability to MIL-STD-1130
- Wire in accordance with MIL-W-81822/3 (Kynar), MIL-W-81822/13 (Tefzel), MIL-W-81822/1A (Milene) and MIL-W-81822/5 (Kapton)
- Automatic open and short testing
- Wire sizes 30 AWG through 20 AWG
- Twisted pair, twisted triple and most coax
- Wire routing optimization for automatic wrapping
- Second operation soldering and assembly available
- Assembled and inspected to MIL-C-28754
- Contacts, insulators, bushings in accordance with MIL-C-28754
- Automatic contact insertion equipment
- Female tuning fork, male blade, feed-through and feed-to in various lengths, sizes, and finishes
- Insulated voltage bus bars in various configurations

NAFI Header Features

- Build-to-print or custom design
- Single contact row up to 6 rows, various contact counts
- Assembled and inspected to MIL-C-28754
- Contacts, insulators, bushings in accordance with MIL-C-28754
- Female tuning fork, male blade, feed-through and feed-to in various lengths, sizes, and finishes
- Straight and bent contacts
- PCB mount, solder, and wire wrap contacts

Value-Added Built-to-Print Capabilities

LCR Embedded Systems offers value-added support to everything we build including design modifications, the creation of tooling and test fixtures, system upgrades, and projects involving legacy technology. Add in years of experience and a dedicated, skilled manufacturing group, and you have a company that can assemble and test your hardware to meet your specifications precisely.

- Complete turnkey assembly, ready for higher-level installation
- Design for manufacturing and supply chain optimization
- Inspection at all levels of assembly, automated testing
- Work to customer drawing or create all needed documentation
- Obsolescence management and mitigation
- Prototype development, mid-level volume, and production runs
- Full engineering staff to support projects and resolve issues
- Incorporate changes during assembly
- Development of long-term partnerships based on excellent customer service

When you choose LCR Embedded Systems, you're choosing a sustained alliance with industry-leading experts who are committed to helping you achieve your mission.