

Commercial manufacturing

Product assembly and development

We are focused on working with companies that require high quality products with consistent deliveries, by offering a full turn-key solution, including procurement of parts, assembly of the product, and on-time delivery. The supply chain is unpredictable, and we would like to help reduce that burden to you by bringing your manufacturing closer to home.

Calian's highly skilled, certified assemblers, operators and technicians are trained to follow strict quality controls. Our dedicated procurement and customer support teams help ensure we meet your critical timelines. We offer high-quality assembly processes and procedures across various industries, including agriculture, automotive, mining, as well as telecommunications.

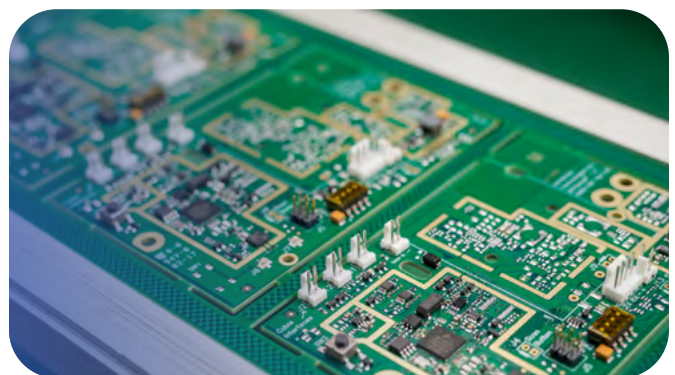
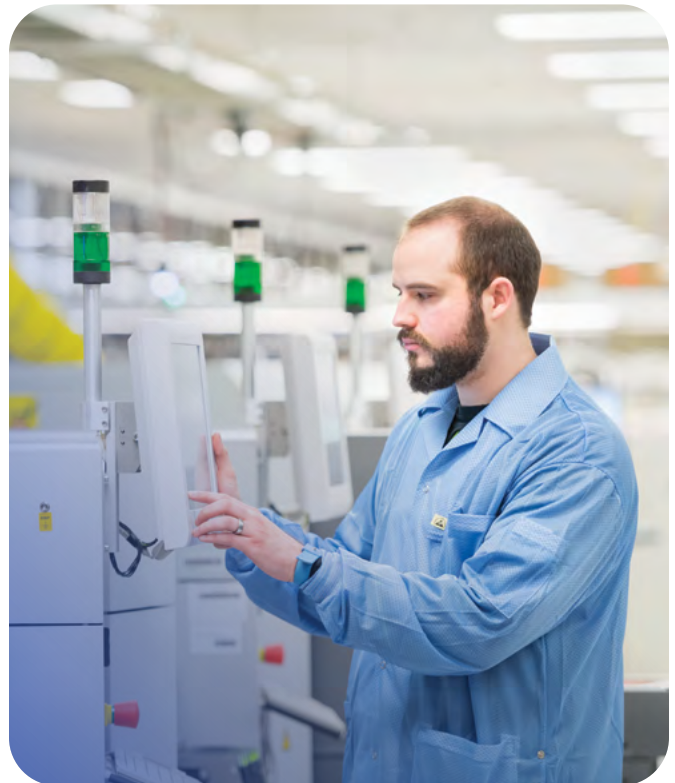
Our manufacturing equipment enables us to offer a variety of production volumes from small prototype runs to high volume continuous production.

Our engineering team is available to help support your designs. We can offer your team hardware and software support, and help with compliance testing for EMC, radiated emissions, thermal, vibration, and shock.

Manufacturing capabilities

Circuit Card Assemblies (CCAs)

- Calian specializes in low- to medium-rate production of CCAs, simple through complex
- We have a state-of-the-art SMT assembly line with capabilities including laser marking of PWBs, automated solder paste inspection, 3D automated optical inspection (AOI), and off-line 3D x-ray inspection
- Programmable selective solder machines and skilled assemblers are used in the placement of thru-hole components
- Custom conformal coating machines are used to coat your product, to comply with your requirements



Unit-level assembly and test

- Calian provides high-quality unit-level assembly processes and procedures across various industries, including agriculture, automotive, mining, and telecommunications
- Calian ensures the highest level of quality in its products, whether it involves reading sensor cables for the agriculture industry, or attaching to vehicles in the automotive or mining sector
- Our teams adhere to IPC-A-610 class 3, J-STD-001, IPC-7711, IPC-7721, and IPC/WHMA-A-620 manufacturing standards



Harness and cable assembly

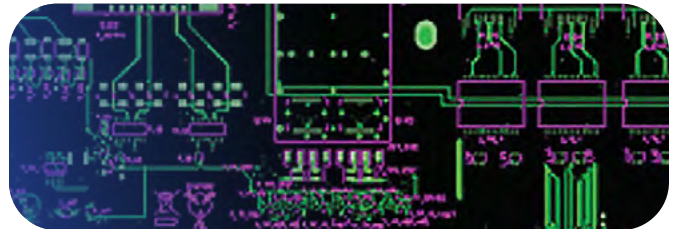
- Calian designs, manufactures and tests many varieties of cable and harness assemblies, simple through complex
- We are a proven supplier who can meet strict quality and E3 requirements cost-effectively
- With extensive experience building harnesses that withstand water, dust and extreme weather; we've taken those processes and applied them to all of our harness production



Engineering and development capabilities

Hardware design and development

- Experience in embedded processor selection and design
- Expertise in FPGA and programmable logic development
- High-speed digital signal processing.
- Proficient in circuit card design, including schematics and board layout optimization
- Enclosure 3D CAD design and development
- Compliance testing for EMC, radiated emissions, thermal and vibration/shock



Software design and development

- More than 30 years of experience in designing and developing custom software solutions
- We offer embedded software solutions, bootloaders, firmware, and Graphical User Interface (GUI) development

For more information, visit calian.com/manufacturing or contact: at.manufservices@calian.com



Calian® helps people communicate, innovate, learn and lead safe and healthy lives. Every day, our team embodies our core principles of unwavering customer commitment, integrity, innovation, respect and teamwork, to engineer reliable solutions that solve complex challenges. That's Confidence. Engineered.

We are a growing company headquartered in Ottawa with offices and projects spanning North American, European and international markets with a focus on innovative healthcare, communications, learning and cybersecurity solutions.