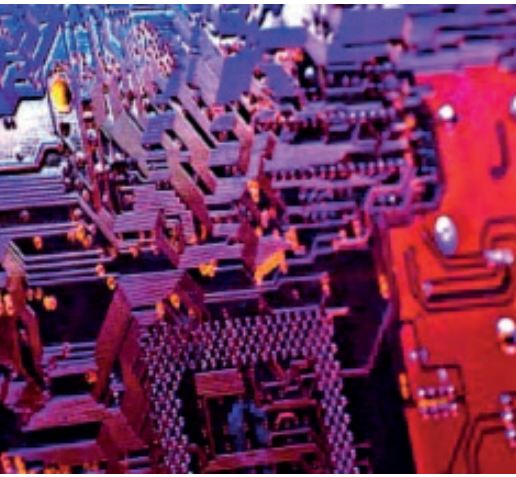


A reputation  
for excellence...



With four decades of electronic engineering experience, Roscan Electronics has an enviable reputation built on our proven track record.

We offer product development, rapid prototyping and contract manufacturing for all aspects of electronic communication equipment, broadcast equipment, wiring assemblies, test equipment and printed circuit boards.

If your company has a concept that needs to become a reality, a production run that needs to be delivered fast, or if you require low volume or high volume PCB assembly, Roscan Electronics can help.



## PROTOTYPE & PRODUCTION MANUFACTURERS TO THE ELECTRONICS INDUSTRY

With a fully trained engineering team, Roscan Electronics has gained accreditation in antenna manufacture, data cabling, cabinet wiring and installations and are specialists in:

- PCB assembly
- Cable and harness assemblies
- Cable manufacture
- Electronic manufacturing

We offer a wide range of services, including:

- Electronic design services
- Electronic prototyping
- PCB manufacturing
- PCB construction
- Procurement services
- Through hole assembly
- Antenna manufacture
- Test, inspection & repair
- Connector assembly
- PCB assembly
- Injection mould facilities
- Wave soldering
- Contract electronic manufacture
- SMT assembly - including rapid BGA, CSP & QFN placement and removal



## TRAINING

We can offer training for your employees in the IPC-A-610E-2010 and IPC/WHMA-A-620B standards for cable assembly. Training is provided by our own qualified instructor.

# Complete product build

## PCB DESIGN, LAYOUT, ASSEMBLY, MANUFACTURING AND TESTING

### Effective, efficient PCB design

Our highly skilled engineering team can handle complex designs and assist in this and every stage of the manufacturing cycle.

### Low or high volume circuit board assembly

Whether it's manual circuit board assembly or use of our fully automatic surface-mount machines, we deliver the same level of care and attention to detail.

### Cost-effective prototyping

Fast turnaround, high quality and cost effective design and prototyping services via our in-house low volume manufacturing line – saving you money whilst keeping the development process on schedule.

### Contract manufacturing

Why order just the PCB assembly when you can outsource production of the whole build to a single supplier? We are proficient in through-hole and SMT assembly, and our reputation means we can leverage our discounts on your behalf.

### Stringent product testing

Our fully skilled in-house testing team can test and inspect your products to your exact criteria, ensuring quality and consistency.

### X-Ray/AOI inspection

Intuitively navigate complex printed circuit boards and electronic components to quickly identify defects.

The process is extremely fast and fully automated, through the use of customisable macros, reporting on both measurement and real-time data.

The system can identify defects such as BGA, voids, insufficient or excess solder, lifted leads and 'tombstoned' components, opens and shorts as well as be used to check component presence and position.

### Application specific balling and reballing

Roscan can provide options for the balling or reballing of IC's, dependent on the particular application issue or requirements:

#### Reball of BGAs with High Melting Point spheres

- HMP reball process ensures minimum stand-off
- Improved mechanical integrity over a wide operating temperature range
- Can be used for high temperature applications

#### Reball of BGAs with Plastic Core Solder Balls (PCSB)

- Ensures minimum stand-off
- Lead free process
- Provides better path length and inductance control for RF/microwave circuits

#### High Melting Point (HMP) or Plastic Core Solder Balls (PCSB)

- Increases the stand-off height
- Improved mechanical integrity over a wide temperature range
- Better management of package to substrate TCE differences

#### Laser balling on specialist substrates

- Minimal heat transfer to substrate allows ball attach without reflow
- Can be used on glass and other substrates
- Specialist packaging
- Medical devices
- WLCSP and CSP products

## CABLE AND WIRING ASSEMBLY

Comprehensive cable and wiring assembly, manufacture and testing services.

With clients from a number of sectors including military and defence, telecommunications and engineering, we pride ourselves on building to order, and delivering whatever our customers require at an extremely high quality.

### Cable assembly, wiring looms and harnesses

From simple wiring looms to complex cabinet wiring, we undertake all types of cable assembly, wiring harness and wire loom work. Digital, analogue, power and RF signals can all be incorporated into a single loom assembly for ease of installation.

### Cable manufacturing and connector assembly

Roscan Electronics has been manufacturing cables for four decades and has expertise in a wide range of connector styles, from typical industrial PC applications, through to MIL-spec assemblies for high durability.

We pride ourselves on our quality control and all our employees are certified to the WHMA A-620 standard for cable assembly.

### Cable Testing

With stringent testing, and rigid quality control, we handle even the most complex looms containing several hundred wires, crimps and connectors.

If you require external testing for your own sub assembly, we have a testing team at your disposal.

### Cost-effective procurement services

Over the years we have developed excellent relationships with our suppliers, and we're happy to leverage those on your behalf - ensuring you receive the best quality and the best value for money.

If you have component or connector requirements, or are looking for difficult to find or obsolete items, get in touch and we can source them.

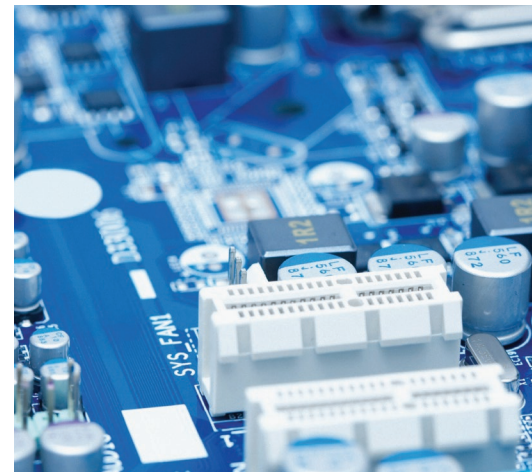
## ANTENNA MANUFACTURE, DATA CABLING, CABINET WIRING AND INSTALLATIONS

With a fully trained engineering team, we have gained accreditation in antenna manufacture, data cabling, cabinet wiring and installations.

We produce antennae for a range of applications, both civilian and military, and have all the necessary test equipment to ensure that each antenna passes the most stringent quality and functional assessments.

### ROSCAN DELIVER 100%

If you feel we can be of service to your business, or would like to find out how we can help deliver the solutions that your customers require, then contact us today.



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