

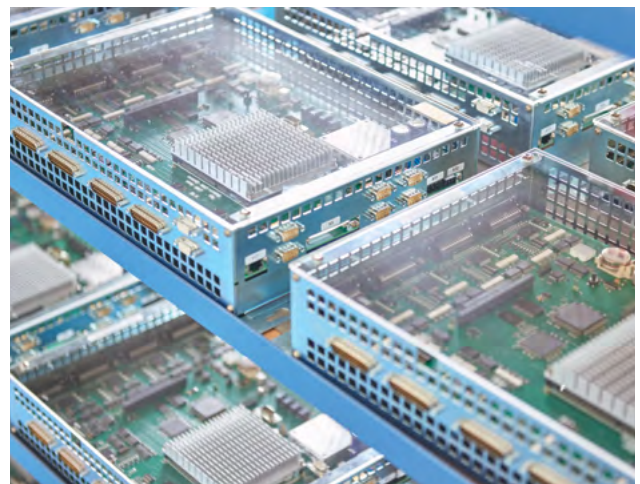
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## Electronic manufacturing services (EMS)

PCB assembly, box building and system assembly, microelectronic assembly, tool design and fabrication, plastic injection molding

The EMS production sites in Arad (Romania), Batam (Indonesia), Bronschhofen (Switzerland), Radeberg (Germany), Singapore (Singapore), Suzhou (China) and Thuan An Town (Vietnam) are service providers in development and manufacturing for electronic components, devices and systems. With a wide range of production options in printed circuit

board assembly, microelectronic assembly in box building and system assembly and control cabinet construction, cable assembly, tool design and fabrication and plastic injection molding, Cicor offers outsourcing solutions from the idea to the finished product.





## Portfolio

### Engineering & test engineering

- HW/SW development
- PCB design
- Mechanics
- Project management
- Automatic optical inspection
- Various tests (flying probe, in-circuit, test, x-ray, etc.)

### Printed circuit board assembly

- Laser marking/labeling of printed circuit boards with unique serial number
- Acquisition and evaluation of the process steps in quality data management (Online SPC)
- Online traceability of production steps, component batches and test data at assembly level
- Solder paste printing in screen printing process
- 3D solder paste inspection
- SMD assembly of printed circuit boards
- Reflow soldering
- Automatic optical inspection (AOI)
- THT printed circuit board assembly
- Wave soldering
- Selective soldering
- CNC milling/sawing for panel cutting
- Manual soldering according to IPC A-610
- Programming of integrated circuits
- Fully automatic painting and encapsulation of assemblies
- Prototypes and very small series under serial production conditions

### Microelectronic assembly

- SMD mounting
- Chip assembly
- Wire bonding
- Encapsulation

### Box building and system assembly

- Printed circuit board assembly
- Plastic injection molding
- Cable assembly
- Proven supplier base for mechanical purchased parts
- Coating and potting
- Various joining technologies such as bonding, ultrasonic welding, vibration welding, etc.
- Marking and labeling (laser marking, pad printing, screen printing, etc.)
- Functional, environmental and burn-in tests
- Customized packaging solutions

### Tool design and fabrication and plastic injection molding

- 3D software design
- Moldflow simulation
- High-precision mold
- 2K injection molding
- Insert molding
- Thin-wall molding
- Micro molding
- Vertical and horizontal molding
- Pre-production to mass production
- Multi-cavitation design
- 3D-MID

## Markets



Industrial



Medical



Aerospace and defence



Watches and consumer



Automotive and transport



Communication



### Swisstronics Contract

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The Cicor Group is a globally active development and manufacturing partner with innovative technology solutions for the electronics industry. With about 2100 employees at ten production sites, Cicor offers highly complex printed circuit boards, printed electronics, hybrid circuits and substrates as well as comprehensive electronic manufacturing services (EMS) including microelectronic assembly and plastic injection molding. Cicor supplies customized products and services from design to the finished product from one source.



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