

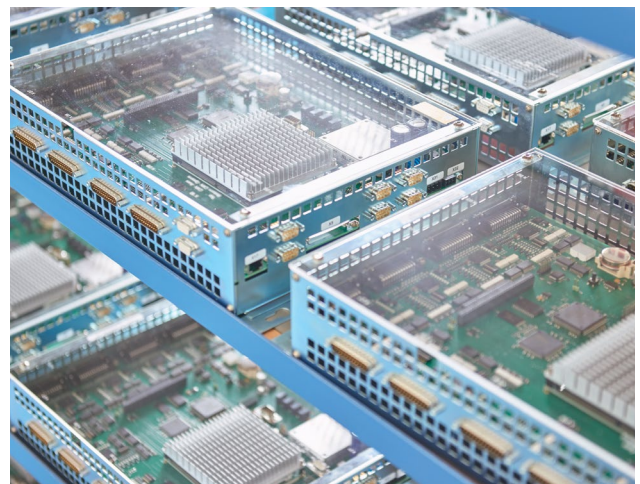
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## Electronic manufacturing services (EMS)

PCB assembly, box building and system assembly,  
microelectronic assembly, precision plastics

The EMS production sites in Arad (Romania), Batam (Indonesia), Bedford (United Kingdom), Bronschhofen (Switzerland), Radeberg and Dresden (Germany), Singapore, Suzhou (China) and Thuan An City (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
-  Wearables
-  Building Technologies



- Arad, Romania
- Batam, Indonesia
- Bedford, Great Britain
- Borji Cedria, Tunisia
- Bronschhofen, Switzerland
- Buttlar, Germany
- Dresden, Germany
- Radeberg, Germany
- Singapore
- Suzhou, China
- Thuan An City, Vietnam
- Wutha-Farnroda, Germany

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The Cicor Group is a globally active provider of full-cycle electronic solutions from research and development to manufacturing and supply chain management. Cicor's approximately 2,500 employees at 15 locations worldwide are serving leaders from the medical, industrial and aerospace & defence industries. Cicor creates value to its customers through the combination of customer-specific development solutions, high-tech components, as well as electronic device manufacturing.



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