



Electronics Manufacturing Services Provider

First choice for high level assembly applications
SINCE 1987

A whole-scale Electronic Manufacturing Services (EMS) partner for leading OEMs provides high-quality prototyping and full-range production services for all types of printed circuit boards and complex systems.



Who we are, what we do

Semicon Sp. z o.o. is a Polish competence and technology centre that has been setting standards in the contract manufacturing (EMS) of advanced Hi-Tech electronics for over 35 years.

As a family-owned, innovative company, **we combine a passion for engineering with international standards**, delivering solutions for the most demanding reliability requirements – from space and defence technologies, through marine systems and drones, to advanced RF equipment.

We operate a modern production and logistics facility with a total area of 5,000 m² across 4 key locations, where a team of over 140 specialists delivers projects of the highest complexity.

Our advantage lies in **the unique combination of component distribution** from global manufacturers **with precision contract assembly**, ensuring supply chain continuity and cost optimization at every stage – from prototype (NPI) to serial production.

over **35** years
of experience

3
assembly lines

100%
quality control

60%
export production

Experience and expertise

At Semicon, the highest quality is not a promise but a proven standard. Our team consists of certified trainers, experts and specialists, operating in accordance with the most rigorous industry standards:

- IPC-A-610, IPC-A-600
- IPC/WHMA-620
- IPC-7711/7721
- IPC/J-STD-001 + SPACE

Certificates

Semicon has implemented and maintains the Integrated Quality Management System, confirmed by the following certificates:



PN-EN ISO 9001:2015
PN-EN ISO 14001:2015
AQAP 2110:2016



MSWiA Concession

Licensed by the
Polish Ministry of Interior
and Administration

| Our Hi-Tech specializations



SPACE & AEROSPACE:

manufacturing of electronics operating in low-pressure environments, exposed to radiation and extreme thermal cycling.



DRONES & ROBOTICS:

miniaturization, weight optimization (Flex/Rigid-Flex technologies) and precision control systems.



MARINE & OFFSHORE:

protection against corrosion, moisture, contamination and salt spray (advanced protective coatings and hermetic sealing).

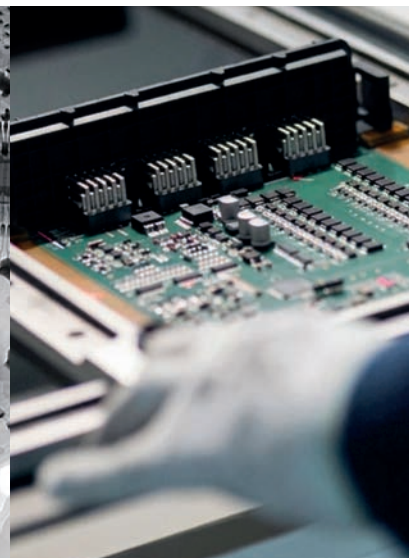
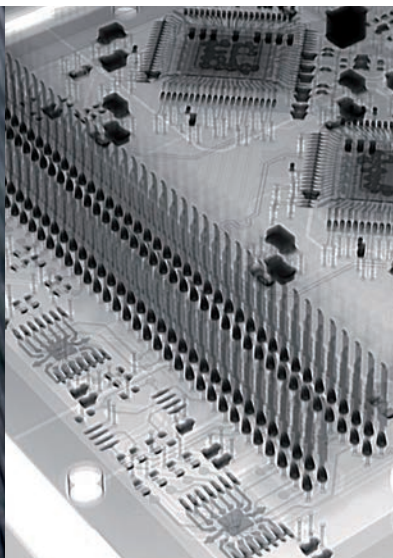
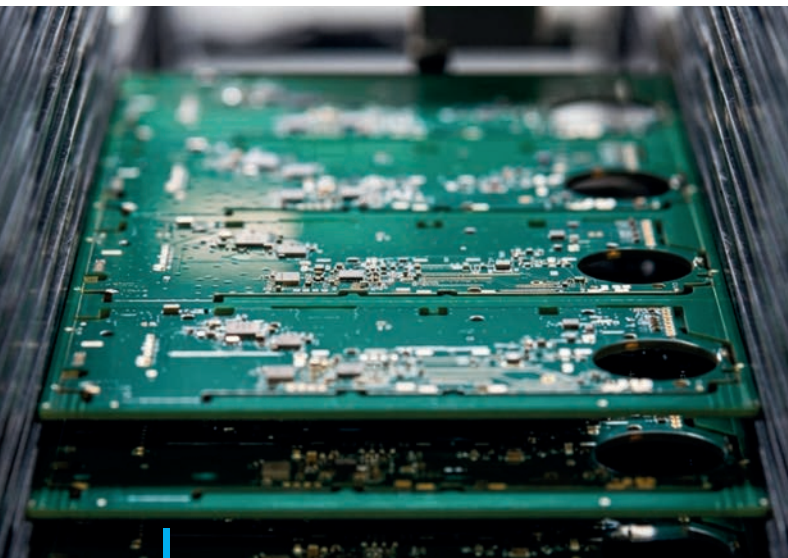


RF:

assembly of high-frequency circuits, sourcing of microwave laminates and specialized RF connectors.

Assembly and technological services

- **Comprehensive component assembly** on PCBs, IPC Class 2 and 3
- **PCBA conformal coating and potting**
- **Press-Fit connector assembly** with force and depth control
- **Lead forming for THD, Flat-Pack and Quad Flat-Pack components**
- **Degolding and SnPb <-> SAC solder alloy conversion on leads**
- **Hot-Bar technologies** for Flex PCB connectors and LCD modules
- **PCB laser depanelization of Rigid, Flex and Rigid-Flex boards**, eliminating the risk of contamination and micro-cracks
- **PCBA repairing, component replacement** and reballing of BGA, QFN, etc.
- **Wire harness production**, from small to medium-sized batches
- **Box build assembly**



*Semicon – a certified and reliable partner
in contract EMS manufacturing.*

” We set the highest quality standards in our industry”

Quality and testing (zero-defect policy)

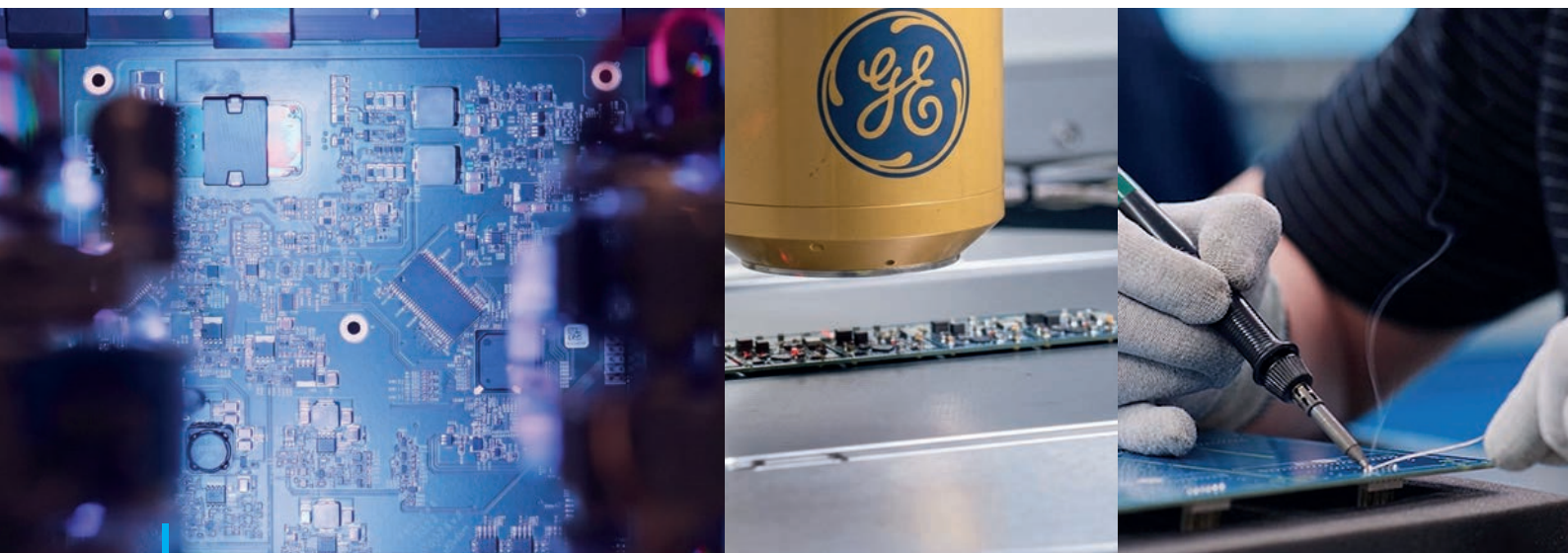
- **X-Ray inspection and analysis for PCBs, PCBAs, wire harnesses and other products**
- **100% AOI-SPI 3D inspection**
- **Flying Probe testing and programming** for small and medium production series
- **Ionic contamination purity measurement acc.** to the ROSE method
- **PCBA cleaning acc.** to IPC and MIL standards
- **Design and manufacturing** of In-Circuit testers (ICT) and functional testers (FCT)
- **Environmental and burn-in (ageing) testing**, both in-house and in cooperation with scientific institutions
- **Boundary Scan (JTAG) testing for complex digital circuits, including FPGAs**

Engineering support and logistics:

- **Design for Manufacturing (DfM):** design optimization for serial production
- **PCB procurement and component kitting**
- **Component obsolescence management:** active search for replacements and product lifecycle management
- **Precision laser-cut stencils**, including step-up/step-down stencils with nano-coating
- **Drying of electronic components and PCBs acc.** to IPC/JEDEC J-STD-033
- **Tape & Reel packaging of components** for automatic assembly
- **PCB design & engineering support**

Market segments and product applications

- | | | |
|----------------------|----------------------------|----------------------|
| ✓ Mining industry | ✓ Automotive and transport | ✓ R&D |
| ✓ Defence | ✓ Marine industry | ✓ Ergoelectronics |
| ✓ Space and aviation | ✓ Medical | ✓ Telecommunications |



***Advanced electronics. From design to serial assembly
– with full quality control.***

Other Semicon business areas



Distribution

- Electronic and electromechanical components
- Materials for electronics and other industrial branches
- Certified materials for aviation, defence
- Measuring accessories, test probes
- Tools for the electronics industry



Laser cutting of SMT stencils

- Stencils on aluminium frames, Vector Guard and self-tension systems
- Long stencils for LEDs, up to 1800 mm
- Micro stencils for reballing with thickness up to 600 µm
- Step stencils (variable thickness) – milling, micro welding
- Nano coating stencils
- Precise laser-cut mechanical components
- Ta, Mo, Ni, Invar, Inconel, precision cutting



Optoelectronic equipment manufacturing

- Laser modules: line, cross, spot
- Laser measuring equipment



Tapes converting

- Rolls, tapes and velcros slitting, die-cut, kiss-cut, laminating



In-Circuit test fixtures (ICT) and functional testers (FCT)

- Designing and building adapters with testing probes
- Test systems dedicated to customer projects



Wire harness production

- Short series
- Wires and cables processing from #36 to #10
- Customization & design
- Box build



Member of:

- Aviation Valley Poland
- Global Electronics Association
- Polish Chamber of Commerce for Electronics and Telecommunications
- Polish Space Industry Association
- Polish Technological Platform on Photonics
- Microelectronics, Electronics & Photonics Cluster



Contact us

■ EMS - Electronic Manufacturing Services

Inquiries: EMSInquiry@semicon.com.pl

Orders: EMSOrder@semicon.com.pl

General information: EMSinfo@semicon.com.pl

+48 22 612 67 92

+48 22 825 24 64

■ Laser Modules Design and Production

lasery@semicon.com.pl

+48 22 615 73 71

■ Tools and Machines for Cable Processing

stanislaw.dobosz@semicon.com.pl

+48 665 100 807

■ SMT Laser Cut Stencils Manufacturing

szablony@semicon.com.pl

+48 22 615 27 05

■ Tapes Converting

tasmy@semicon.com.pl

+48 22 102 22 52

■ Main Warehouse (open Mo-Fr, 8:00-16:00 CET)

radomszczanska@semicon.com.pl

+48 22 615 83 40

Semicon Sp. z o.o.

Zwoleńska 43/43a, 04-761 Warsaw, Poland

info@semicon.com.pl

+48 22 615 73 71

