



ELECTRONIC  
MANUFACTURING  
BY HC LINEAR

# Custom Electronics Manufacturing

FROM PROTOTYPE TO SERIES PRODUCTION



ISO 9001  
ISO 14001  
ISO/IEC 27001



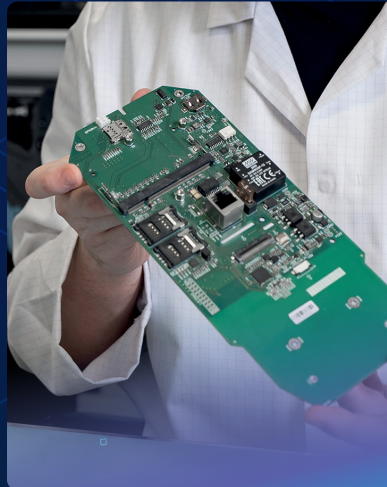
From Design to Implementation ↘

# Bringing Your Ideas to Life



## Electronics Development

Comprehensive solutions from electronic system design to custom printed circuit board (PCB) layout.



## Electronics Prototyping

During prototype and pre-production manufacturing, we prioritize testability (DfT), manufacturability (DfM), scalability, and ease of assembly.



## Electronics Series Production

Electronics Series Production  
Flexible capacity for small and medium-volume orders, with rapid delivery cycles.

FLEXIBLE AND PRECISE SOLUTIONS

## Electronic solutions tailored to your needs!

With over 30 years of experience and outstanding expertise, we deliver the highest quality in electronics development and manufacturing. Our advanced production technologies and flexible processes enable us to provide efficient and reliable solutions for various industries.



DEVELOPED  
PRODUCTS

1000+

R&D CENTER

2000m<sup>2</sup>

PRIVATE-OWNED  
COMPANY

100%

[Our Process](#) →

# Manufacturing Solutions

## Procurement

We manage the entire material procurement process through our reliable supplier network, ensuring comprehensive coverage tailored to project requirements.

## Traceability

All components, subassemblies, and systems are tracked with serial numbers and digitally documented in our ERP system, ensuring full traceability and production analytics.

## SMT Assembly

Our fully automated SMT line supports multifunctional placement, accommodating even large-format panels and specialized components, enabling quick and flexible changeovers.

## THT Assembly

Through-hole (THT) components are placed using a selective automated insertion machine, with manual soldering available as needed.

## Testing

Automated Optical Inspection (AOI) identifies production defects using advanced image processing. We also employ In-Circuit Testing (ICT) for comprehensive electrical testing.

## Final Assembly

After assembly, we carry out functional, safety, and environmental tests on finished products before packaging and shipment.

## Contact us!

[sales@hcllinear.com](mailto:sales@hcllinear.com) →



# Transforming vision into reality

From concept to implementation, from manufacturing to operation, we support our partners throughout the entire process. Our engineering team leverages specialized knowledge and expertise to transform

concepts into working solutions. Our services are tailored to individual requirements, whether for a specific task or the creation of a complex, fully functional product or system.

How we work ↘



# 01

## System Design

We assess project feasibility and design functional systems with a focus on manufacturability, cost-effectiveness, and sustainability.

## Electronics Development

# 02

Design and development of electronic solutions that are simulated and tested to meet functional requirements, industry standards, and environmental factors.

# 03

## Mechanical Development

Our engineers utilize the latest 3D CAD/CAM design tools to ensure professional design from enclosures to mounting elements.

## Software Development

# 04

We offer custom software solutions for various industrial applications, from system design and embedded software to databases and user interfaces, ensuring efficiency and continuous operation.

# 05

## System Integration

We expertly integrate hardware, software, and systems with careful planning and attention to detail.

## Manufacturing Capabilities

# 06

With in-house production capacity and a modern equipment fleet, we guarantee rapid and flexible manufacturing of high-quality products.

# 07

## Support and Customer Service

Our commitment extends beyond delivery, offering system implementation, ongoing support, and future development as needed.

EXPERTISE

# Why Choose HCEM?



Our modern R&D center features automated **SMT** and **THT** production lines and an assembly department, enabling fast and flexible in-house manufacturing.



We maintain full control over all system elements we develop, with the capability to **expand**, **service**, and **operate** them.



Since 1990, our company has leveraged advanced technology and expertise in design, development, manufacturing, and operation.



We have successfully completed numerous international projects and maintain an extensive partner network.



Our engineering team ensures that products meet functional, quality, and cost objectives throughout the process from design to prototyping and series production.



Reliable business practices ensure long-term cooperation and the successful realization of your projects.



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ISO/IEC 27001



Highest Creditworthiness  
"Dun & Bradstreet" 2024  
Gold



PRINCIPAL MEMBER



MAGYAR  
INNOVÁCIÓS  
NAGYDÍJ



MB | MAGYAR  
BRANDS  
6x '17 '19 '21 '22 '23 '24  
HUNGARIAN INNOVATIVE BRAND AWARD



BÉT50 | 2023  
BUDAPEST STOCK EXCHANGE  
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