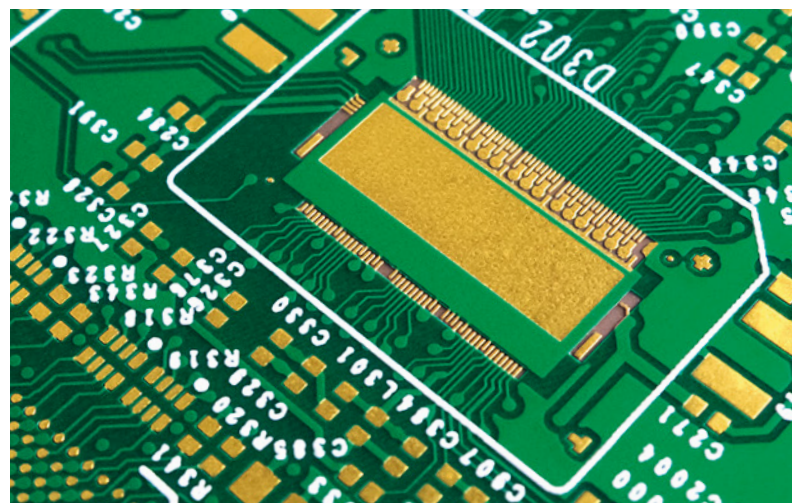
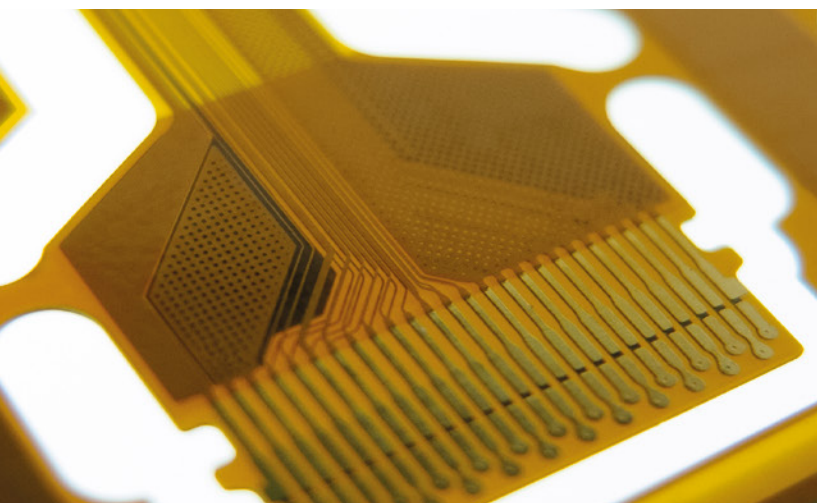
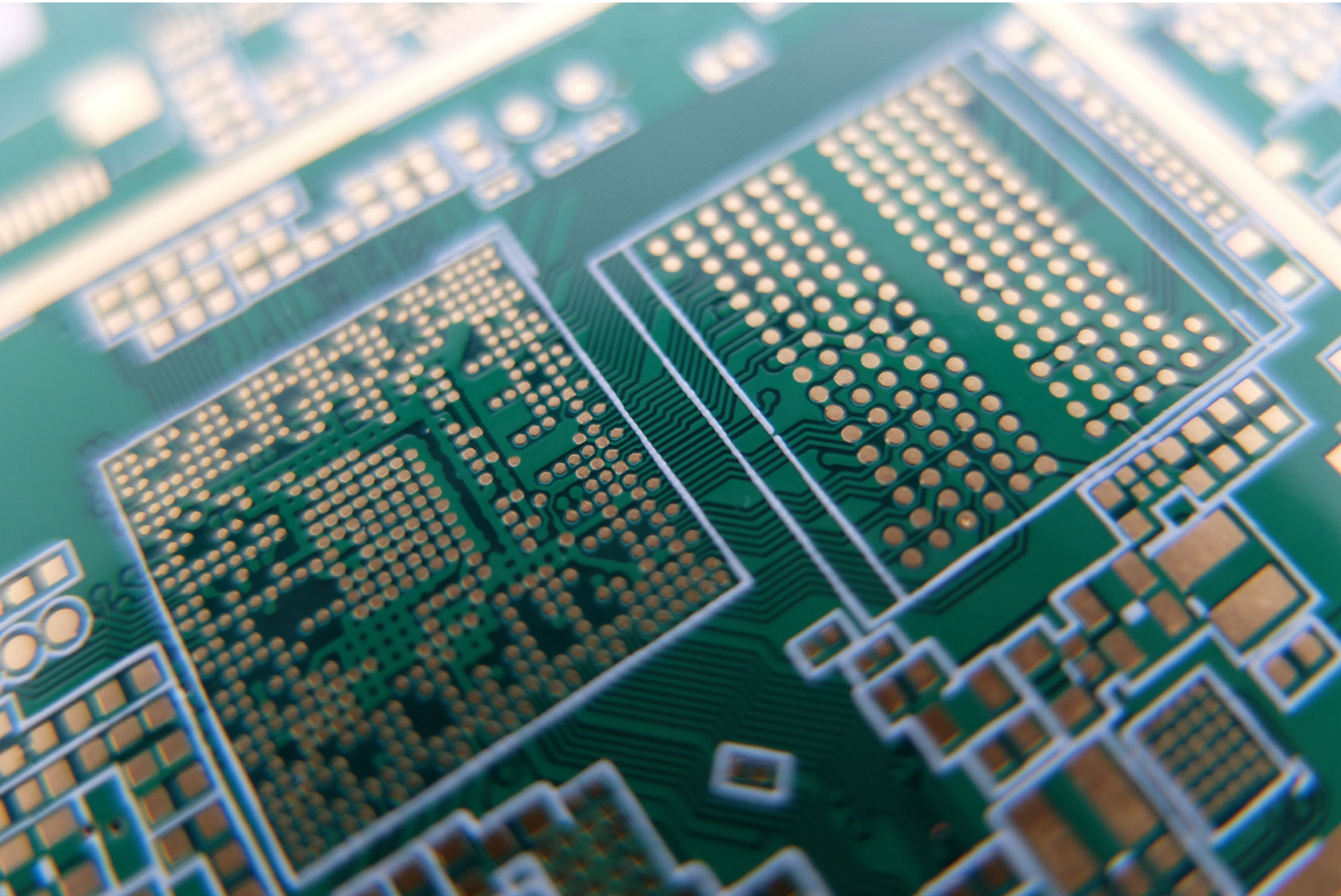




○ Advanced Printed Circuit Boards





Integration of Advanced Technologies

Since 1990, Eurotronics delivers state-of-the-art-Printed Circuit Board technologies to the unique requirements of each customer.

Our business consists of *customer support during the design process (design for manufacturing), manufacturing and marketing of Printed Circuit Boards* for a broad range of professional high-tech applications.

Fine-tuning between design and manufacturing process can optimize both development and production, and therefore we invest in long term strategic partnerships.

Eurotronics represents one of the finest production facilities in Asia which means you can draw from an enormous intellectual database of actual Printed Circuit Board manufacturing and engineering experience.

On top of know-how, we offer an honest advice and personal involvement in all stages of the relationship with our customers.

We strive for *Integration of Advanced Technologies into your products*: gradually the most recent ideas and technologies will be streamlined and implemented in the production process. We provide creative and flexible solutions with on-time delivery performance.

Eventually, a good Printed Circuit Board is the basis of the most complex electronic application.

Application markets

- Medical devices
- Optoelectronics
- Broadcast equipment
- Agriculture
- Renewable energy
- Satellite navigation
- Communication
- Traffic & transport
- Research & Development
-

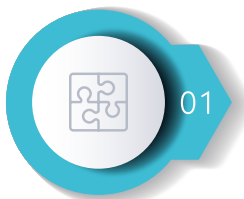
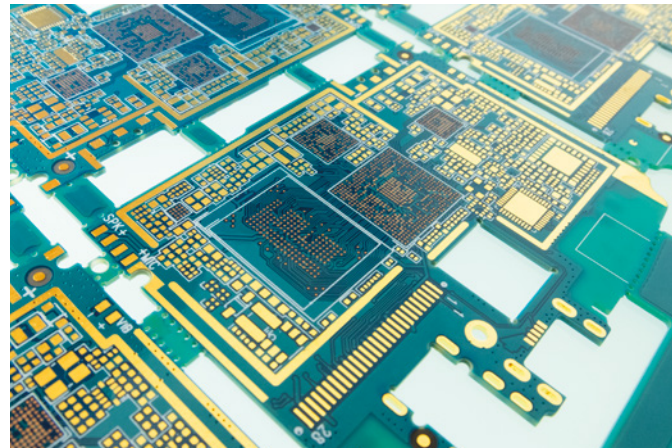
Services

Eurotronics' partner production facility has all the processes needed to develop high-tech products for our clients.

Eurotronics monitors, controls and optimizes the entire production process, from initial design idea over series production towards logistics. We support our customers locally and form a direct line with the manufacturing process.

We offer *compelling solutions*, from standard configurations to the most complex challenges possible in the industry.

And we guarantee a precision product optimized for further processing in your production.



01

Development

Consulting

Requirement specifications

Design for manufacturing

Material research

IPC classification

NDA



02

Industrialization

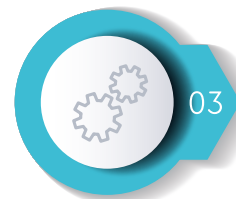
Design rule check

Prototype production

First article inspection

Certification:

- Iso, UL, EICC-GeSi, RoHS & REACH



03

Production

Engineering

Production planning

Material sourcing

Process control

Quality control

Testing

Final inspection

Certificate of Compliance



04

Logistics

Packaging

Transportation

Stock control

Traceability

After-sales warranty

Technologies

Innovation has always been our fascination! Depending on the application, Eurotronics offers the right technology for the fabrication of your Circuit design.

HDI (High Density Interconnection) reduces the number of layers and increases the density. This concerns drastic reduction of the via size (down to 50µm) and higher aspect ratios.

As an answer to miniaturization and ever higher demands for all kinds of electronic applications, Eurotronics and its partner production facility are in constant search for taking the most advanced Printed Circuit Board technologies to the next level.

Blind & buried via technology ensures a high signal integrity, combined with a very efficient use of surface. To ensure reliable HDI-circuitries, Vertical Continuous Plating Lines (VCP) are being used for the creation of ultra fine lines and Laser Drilling or X-ray Drilling for mechanical manipulation of the Circuit Board.

Besides HDI and standard multilayer technology, Eurotronics offers also a broad range of flexible and rigid-flexible circuits.

Manufacturing capabilities

Rigid, Rigid-Flex & Flexible PCB's

High Density Interconnects (HDI)

- Laser Direct Imaging (LDI)
- Circuit structures down to 50µm
- Laser microvias down to 50µm
- Stacked / Staggered microvias to 6-n-6
- Sequential build-up
- Copper filling & Resin filling
- Via-in-Pad design
- Wirebond pads down to 100µm

1-32 layer rigid PCB's up to 4 mm thickness

Multilayer circuits on High-Tg & Mid-Tg FR4

Hybrid stack-ups

Polyimide

- Adhesive & Adhesiveless substrates

Ceramics

- Thick-film substrates on Al₂O₃

Materials for Thermal management

HF substrates

Laser & Mechanical cavities

+/-5% Controlled Impedance

Surface finishes

- ENIG (NiAu)
- ENEPIG (NiPdAu)
- Immersion Ag
- Immersion Sn
- OSP
- HASL
- Gold plating

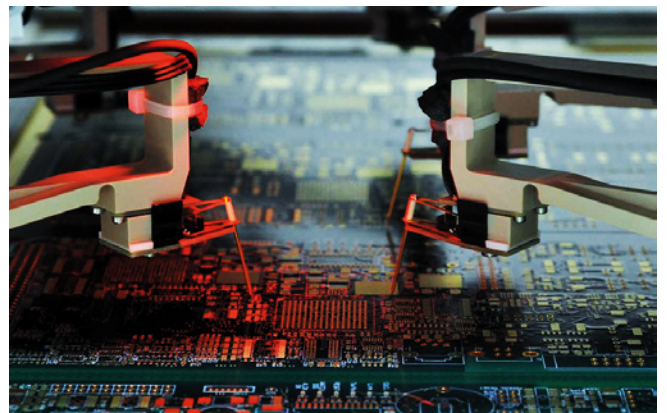
Electrical, optical & thermal testing

Quality

Our partner production facility maintains the ISO 9001 and TS 16949 certifications and produces according to the latest IPC standards for materials, production and test methods. All your Printed Circuit Boards are produced according to the latest RoHS and Reach guidelines.

Ethics is of great importance to us and together with the ISO 14001 environmental management system, we make sure your PCB's will be produced with the lowest possible environmental risk. This way we can structurally control emission, waste disposal, used raw materials and energy to guarantee our future.

Eurotronics attaches great value to quality just to ensure that only PCB's that meet your quality requirements are delivered. The quality management system is guaranteed by a fully integrated ERP system and well maintained calibration processes. Every single PCB is inspected according to the latest revision of IPC A-600 class 2 and subsequently to customer specifications. At explicit request we can even guarantee IPC Class 3.





IPC documents

Specification for base materials

- IPC-4101

Qualification & performance

- IPC-6011
- IPC-6012
- IPC-6013
- IPC-6016

Solderability

- IPC-J-STD-003

Solder mask

- IPC-SM-840

Surface finish

- IPC-4552 (ENIG)
- IPC-4553 (Immersion Ag)
- IPC-4554 (Immersion Sn)
- IPC-4555 (OSP)
- IPC-4556 (ENEPIG)

Acceptability

- IPC-A-600

Certifications

Quality management system

- ISO 9001
- ISO/TS 16949

Environmental management system

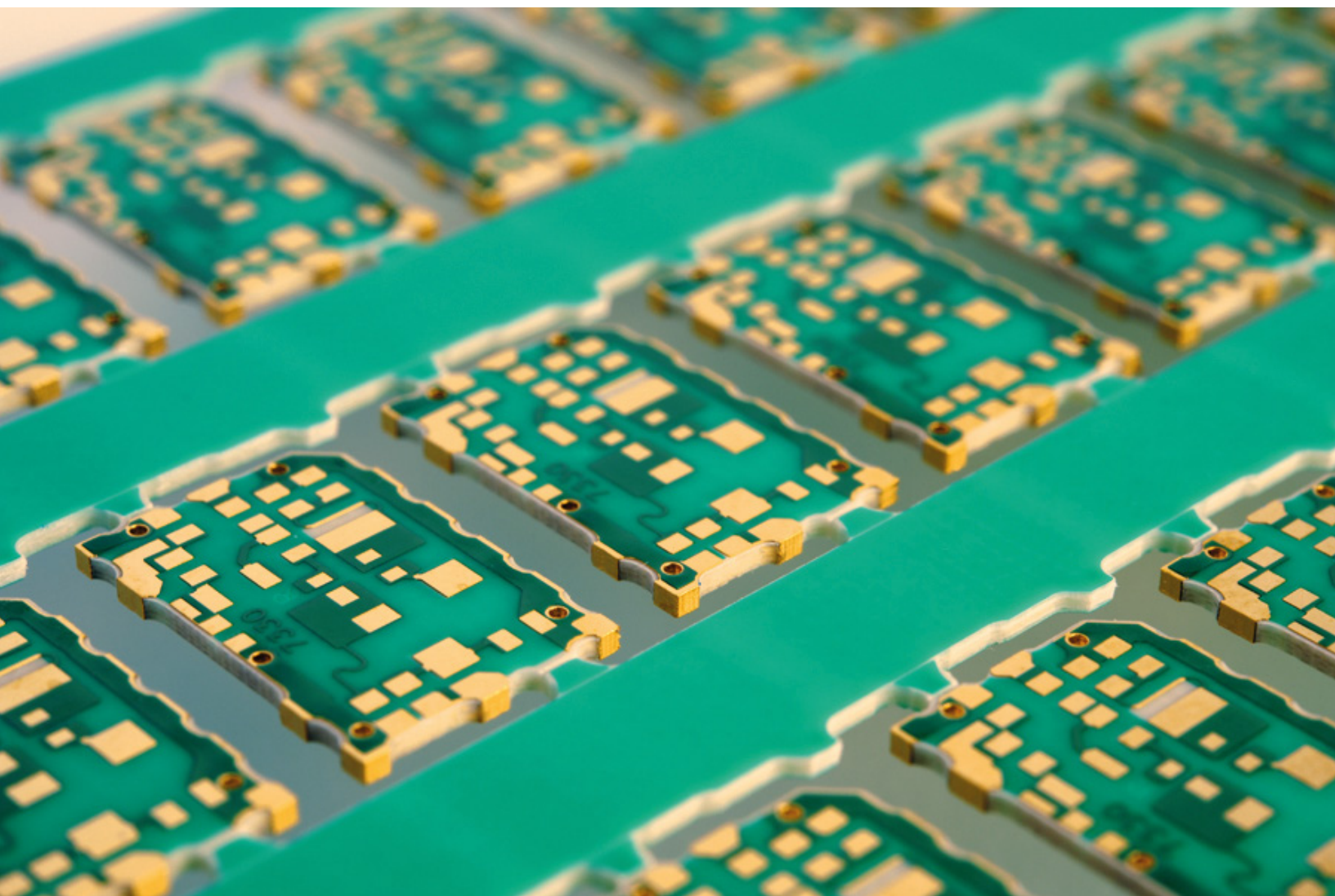
- ISO 14001

UL certification

RoHS

REACH

EICC-GeSi



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