



Elemaster offers customized solutions ensuring the highest level of expertise in every phase of the production process.

With our international EMS centers, sales offices and R&D departments, we can support Customers worldwide.



HEADQUARTERS RESEARCH & DEVELOPMENT MANUFACTURING CENTERS SALES / SERVICE OFFICES

### AREAS OF SPECIALIZATION



## Contacts

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Printed Circuit Boards

## Our worth is measured by your success

Whatever the size and complexity of your project, Eleprint offers advantageous solutions and the highest level of know-how to satisfy your needs.



### Quality

We guarantee the excellence in the construction of PCBs, from prototyping to mass production.



### Technology

We develop cutting-edge techniques and processes, to design and manufacture products with the highest technological content.



### Innovation

We constantly innovate toolings and equipment, to ensure always maximum production efficiency.

### Why Eleprint?

Choosing Eleprint means to have the confidence to obtain excellent results and gain the maximum competitive advantage.



### Fast and precise timing



### Great flexibility

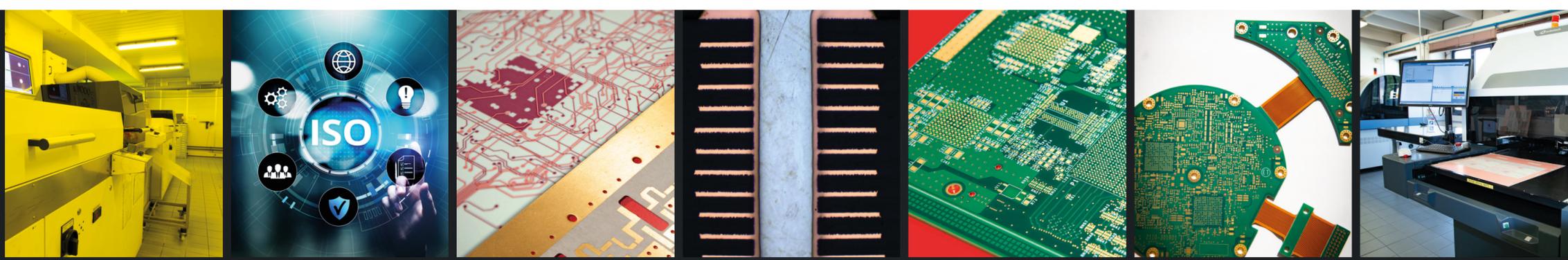


### Competitive offer



### Total customization

ELEPRINT.IT



Eleprint can support you in all your needs, whatever is the complexity of your PCB

### Overview

Since 1988, Eleprint stands out in the competitive scenario as PCB provider, covering the entire life cycle of the circuit from the idea to the finished product, guaranteeing the highest level of skills thanks to its distinctive know-how. For all these reasons, we are the perfect Electronic Technology Partner for all our Customers, that are the major global players in the high-tech sectors. From design and co-design, master layout development, tooling implementation and panelization services, our engineers can support your needs from rapid prototyping to mass production, offering tailor-made technological solutions supported by the greatest level of flexibility, with batches that can range from a few units to many.

### Certifications

Eleprint holds the main certifications of the sectors in which operates, according to the international standards and following the IPC-A-600, class II or class III, as defined by the requirements of its Customers.

In details, we hold:

- UL E135333
- IRIS ISO / 22163:2023
- ISO 9001:2015
- AS / EN 9100:2018

### Base Materials

We support several types of base materials:  
**FR4**  
 (DE104 / DE104KF / IS400 / PCL370HR)  
 (R-1755-C / R-1755-M / R-1755-V) (IT140 / IT158 / IT180) (VT47 / VT481)  
**HIGH SPEED MATERIAL**  
 (FR408HR / I-TERA) (Megtron6 / Astra)  
**HIGH SPEED-HALOGEN FREE**  
 (R-1566-W)  
**HIGH TG-HALOGEN FREE**  
 (EM-370 / EM-37B)  
**TEC-THERMAL IMS SERIES**  
 (Aluminium Base Layer / Ceramic Filled / Non-reinforced Dielectric)  
**ROGER SERIES**  
 (High Frequency: PTFE-CU-Clad / PTFE Di-Clad / RO3000 / RO4000 / RT-Duroid / TMM / AS Series / Bondply-Prepreg)  
**FLEX MATERIALS**  
 (FELIOS) (Polyimide)

### Features

Eleprint can manage different kinds of features of the Printed Circuit Boards, in terms of number of layers, dimensions, thicknesses, and impedance:

- Maximum layers: 28
- Maximum PCB size: 558\*660
- Base Copper: 9-140 um (inner)
- Base Copper: 9-240 um (outer)
- Minimum core thickness: 50 um
- Maximum board thickness: 6 mm
- Impedance measurement & control
- Warpage: 0,5%
- Buried and blind vias
- Sequential build-up 3+N+3

### Other Characteristics

Thanks to our modern, automated, and precise equipment, we can meet lots of requirements, such as:

- Min. Line Width / Spacing (Inner) um (mil): 50/50 (2/2)
- Min. Line Width / Spacing (outer) um (mil): 75/75 (3/3)
- Min. mechanical drill size mm: 0,15
- Maximum aspect Ratio:12:1
- Min. soldermask opening: 50 um

### PCB Types

Eleprint supports many types of technologies, offering a wide range of products, like:

Single side, Double side, Multilayer with/ without blind and buried vias, metal core, sequential build-up. Flex / Rigiflex: Single side / Double side / Multilayer with or without stiffeners.

### Equipment Overview

To ensure the highest level of competitiveness, we put at your disposal all the following equipment:

- CAD CAM UCAM
- Microengraving Atotech Cupraetch UA 75
- Burkle Oil press
- Optical alignment inner layers
- Optical Inspection (AOI)
- Palladium Metallization Atotech
- Exposition with collimated light
- DDI (Direct Image Exposure)
- X-Ray inspection
- Tin Chemical Line
- Gold Chemical Line (ENIG)
- ATG mobile probe electrical test
- Screen printing with inkjet printing
- Laboratory equipment (e.g. TMA, DSC, Fischerscope X-Ray, CVS, CITS, CMI)

### Special Requirements

We give you our full availability to satisfy all your special needs:

- Blind Vias
- Copper reduction
- Hard Gold
- Plug hole
- Micro vias
- Heatsink paste
- CU Inlay
- Sink pads
- Resin filling
- Back-drill

### Chemical Tests

To check your products, we can perform the following analysis:

- Qualitative data analysis of organic substances concentration by water spectrophotometric test according to applicable normative.
- Analysis for check and management of production lines.
- Analysis of organic substances in electrolytic line by CVS.

### Thermo Mechanical PCB Analysis

To check PCB construction and reliability by TMA we can define:

- TG
- Delta TG
- TTD
- CTE

This ensures you the best choice among different options, setting the ideal material which you will need to reach the exact performance that you want.

### Electric/Electronic PCB Analysis

In our laboratory we can perform also several test:

- Both Electric/Electronic PCB Analysis and PCB Impedance Control are used for different applications to keep high frequency signal integrity.
- Our laboratory measures and analyzes PCB Impedance by CITS Polar instrument.

### ND Tests

By trained staff CIS IPC-A-600, and thanks to the supervision of an internal trainer qualified CIT IPC-A-600, we can do:

- Non-destructive thickness measure on chemical nichel-gold, tin-HAL, by Fischerscope X-Ray
- Non-destructive measure of copper thickness in the holes (by CMI, Eddy current instrument)
- Quality acceptance evaluation provided by Certified IPC Specialists – IPC-A-600.

### Environmental Commitments

We recognize the importance of protecting the environment for the welfare of future generations. In this way we search continuously new solutions to achieve targets minimizing the impact of the production on the Earth, as:

- Solar power energy
- Revamping waste treatment

### Logistics and After-Sales

Eleprint can address all the after-sales processes, including packaging of your products and logistics management on a global scale. We can support you by two production plants, one near Milan (Montevecchia, LC) and one near Potenza (Tito Scalo, PZ)

Eleprint works for companies operating in different sectors, providing great flexibility in production volumes and exploiting processes and technologies. Specialized in High Mix / Low&Mid Volumes.

