



THINEX  ROTIMPRES

Build to belong

Advanced printed intelligence  
for connected, sustainable and  
interactive solutions

# THE WORLD WANTS SMARTER & MORE CONNECTED PRODUCTS

The physical world is going digital and consumers expect every product to respond, sense, connect, and adapt.

Printed Electronics is the invisible layer powering this shift, turning surfaces into interfaces.

# SUSTAINABILITY IS NO LONGER NEGOTIABLE

Brands face growing pressure to reduce waste and prove environmental impact.

By leveraging additive manufacturing, printed electronics minimize material waste and production costs, paving the way for smarter, more efficient, and sustainable devices that surpass conventional electronics.

**PRINTED ELECTRONICS** is a disruptive technology that enables the creation of smart, ultra-thin electronic components by printing conductive materials into flexible surfaces like paper, plastic or textiles.

# KEY BENEFITS

## ADAPTABLE

Flexible, lightweight, thin, and rollable. Designed to integrate effortlessly across materials, sectors, and product types.

## SUSTAINABLE

Printed with minimal materials on recyclable and biodegradable surfaces, combining performance with low consumption.

## COST EFFICIENT

Reduces materials, components, and assembly steps, lowering costs from prototyping to full deployment.

## FREE FORM

Printed Electronics unlocks new possibilities in product design, enabling seamless integration into soft, curved, large areas and dynamic surfaces.

## ROBUST

Engineered to perform in real-world conditions, durable enough to resist against bending, vibration and environmental stress.

## SCALABLE

Compatible with roll-to-roll industrial printing, allowing high-volume production at commercial scale.

# FROM IDEA TO EXECUTION

Your innovation partner in printed electronics

At THINEX, we transform bold ideas into intelligent, sustainable, and functional market-ready products through a fully integrated value chain – from concept development to industrial production and commercialization.

At **THINEX**, we place our **customers at the core** of everything we do. We work closely with each client to **identify their specific needs and challenges**, transforming advanced printed electronics into **tailored solutions** that **seamlessly integrate** into their business.



Through a **collaborative innovation process** and full traceability, we ensure that **technology** not only **adapts** to our clients but **evolves** with them. More than a provider, we aim to be a long-term partner—co-creating the future, together.

We will redefine how the world interacts with technology. Positioned at the intersection of innovation, sustainability, and excellence, we will harness the power of printed electronics to drive transformation across sectors.

# FROM IDEA TO EXECUTION

What we offer

## RESEARCH & INNOVATION

We explore new materials, technologies and use cases – from conductive inks to sustainable substrates – unlocking disruptive printed electronics applications.

## DESIGN & CO-CREATION

We collaborate hand-in-hand with clients to define specifications, iterate designs, and ensure feasibility. Our flexible and agile approach allows us to adapt to unique requirements with speed and precision.

## PROTOTYPING & VALIDATION

We help bring concepts to life quickly through proof-of-concept development, pilot runs, and technical validation. Our short-run capabilities enable fast iterations and early market feedback.

## PRODUCTION & INDUSTRIALISATION

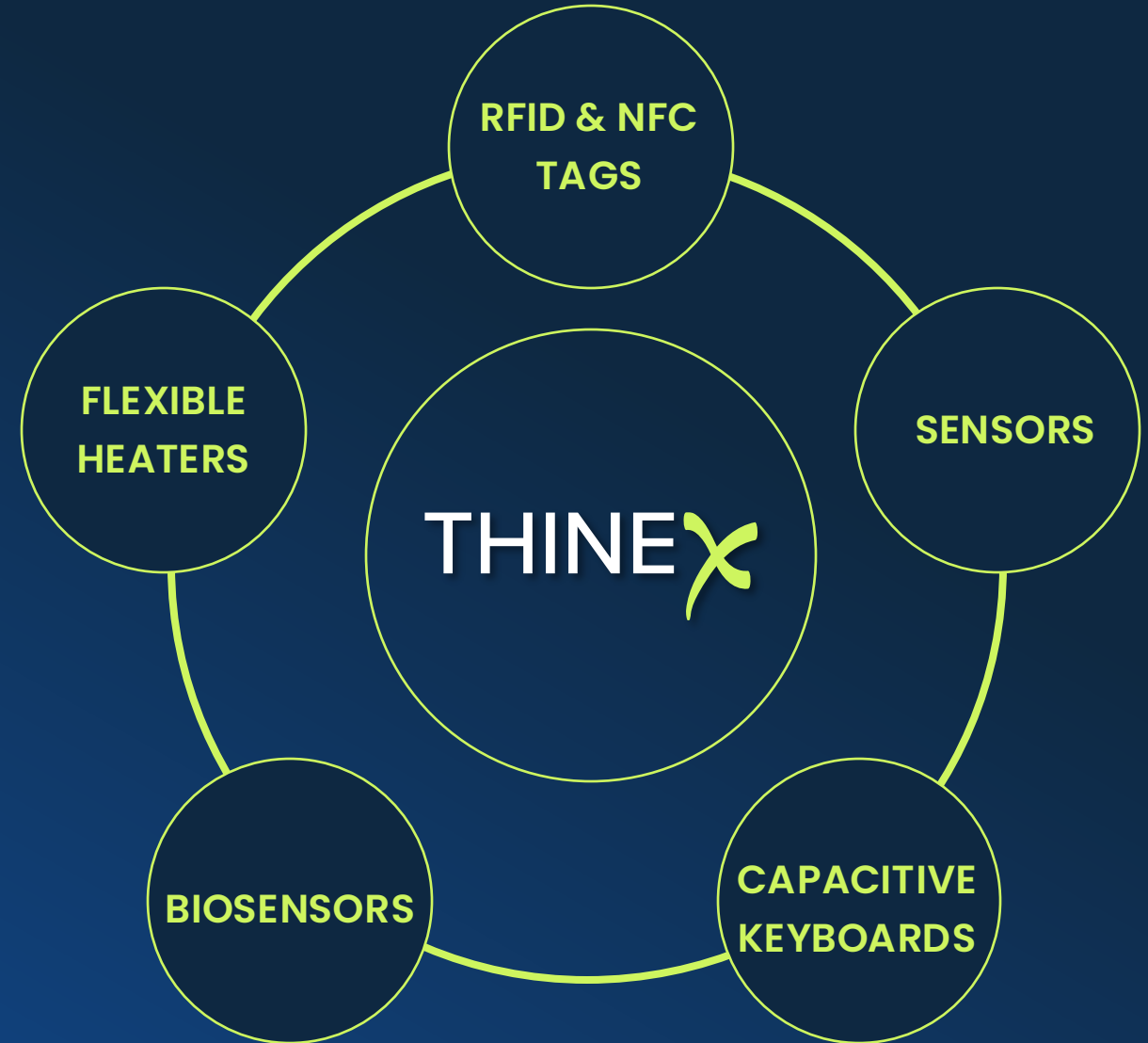
Our facilities include multiple screen-printing lines in controlled environments, allowing us to scale up production with quality, repeatability and competitive costs.

## COMERCIALISATION & MARKET ACCESS

Whether launching opportunistic innovations or standard catalogue products, we support go-to-market strategies in both B2B and B2C environments – from direct distribution to customized formats.

# OUR TECHNOLOGICAL CAPABILITIES

At **THINEX**, we combine cutting-edge materials with advanced screen-printing techniques to produce high-performance, flexible electronic components tailored to your application.





## RFID & NFC TAGS

We develop and integrate printed antennas and circuits for wireless identification and communication.

Ideal for smart packaging, product authentication, supply chain traceability, and contactless user interaction.



## BIOSENSORS

We develop printed bio-reactive components that detect specific biological or chemical markers.

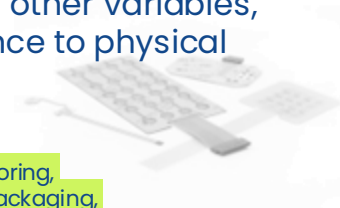
Ideal for health diagnostics, pharmaceutical packaging, food safety, and environmental monitoring.



## SENSORS

Our sensors detect pressure, force, liquid levels, and other variables, adding intelligence to physical products.

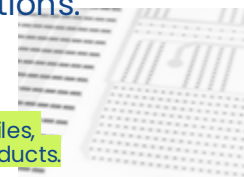
Ideal for industrial monitoring, wearables, connected packaging, and smart infrastructure.



## FLEXIBLE HEATERS

We design and produce thin, flexible heating elements for controlled temperature applications.

Ideal for personal care & home devices, automotive, smart textiles, packaging and therapeutic products.



## CAPACITIVE KEYBOARDS

We print interactive, touch-sensitive surfaces that respond to human input, enabling sleek and flexible HMI (human-machine interface) designs.

Ideal for consumer electronics, automotive interiors, home appliances, and medical devices.





## RFID & NFC TAGS

We develop and integrate printed antennas and circuits for wireless identification and communication.

Anti-Theft Integration for Fashion Retail

Sustainable Smart Packaging

Product Authentication in Luxury Goods

Food Passport for Full Traceability

Access Control in Sensitive Environments

## (((o))) SENSORS

Our sensors detect pressure, force, liquid levels, and other variables, adding intelligence to physical products.

Non-Invasive Liquid-Level Sensors



Smart Irrigation via Humidity Sensors



Strain Gauges for Structural Monitoring



Smart Textiles for Physiotherapy & Sports



Sensorized Testing for Aerospace Components






## CAPACITATIVE KEYBOARDS

We print interactive, touch-sensitive surfaces that respond to human input, enabling sleek and flexible HMI (human-machine interface) designs.

Touch Interfaces for  
Vending & Retail  
Equipment

Touch-less controls for smart  
Interiors and sensitive  
environments



Printed  
Electrochemical  
Biosensors



# BIOSENSORS

We develop printed bio-reactive components that detect specific biological or chemical markers.



# FLEXIBLE HEATERS

We design and produce thin, flexible heating elements for controlled temperature applications.



Heated Textiles for  
Comfort &  
Wearables



Thermal Protection for  
Batteries



Condensation Control  
in Control Boxes



Transparent Heating  
for Surfaces



Smart Office Furniture  
Heating

## BUILT ON SOLID FOUNDATIONS

Founded in

**1989**

Operating mainly in

**Europe**

**+110**

Employees

**€27 M**

Annual turnover

**70%**

Export ratio

**2%**

Of revenue  
invested in R&D

# CLIENTS AND PARTNERS WHO BACK US

Real partners. Real impact

## RTO Partners

eurecat  
Centre Tecnològic de Catalunya

Tekniker  
MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

cidetec  
surface engineering

ENM  
CENTRO NACIONAL DE MICROELECTRÓNICA

AIMPLAS  
INSTITUTO TECNOLÓGICO  
DEL PLÁSTICO

RI  
SE

ICMAB  
INSTITUT DE CIÈNCIES DE MATERIALS DE BARCELONA

IDONIAL  
CENTRO TECNOLÓGICO

UNINOVA  
CEMOP  
Centre of Excellence in Microelectronics,  
Gadgets and Processes

CETEM



Graphenica/Lab

Clients

PONSA



ona labs

ENATE

Arplus

compoxi

R&D  
Gonvarri  
Metal Structures

TSK

FLIWER

CAT UAV

REGNER

Pujolàs

AKOMA

SPORTS  
& LANDSCAPE  
by Ignasi Senabre

LEAN  
HYDROGEN

PANGAEA

JUNG

inFÁRMate  
Atención Farmacéutica Domiciliaria

comsan  
A COMFORT EXPERIENCE

## Collaborators

BC  
BLUE CIRCULAR  
INNOVATION

BLUE  
ROOM  
INNOVATION

COOLING  
PHOTONICS

electrolomas

flexiic

TAFCO  
metawireless

SOLARBOX  
home grown energy

KNOW-HOW  
INNOVATIVE SOLUTIONS & MANUFACTURING

V

twentic

embeblue  
connecting things

B  
M  
Q

inecfi  
GENUINE FINE BLANKING PARTS SINCE 1969

ABC  
COMPRESSORS

JORCAR

## Clusters & Associations

FUNCTIONAL PRINT  
CLUSTER

PACKAGING  
X CLUSTER

ambit  
LIVING SPACES CLUSTER

Mav  
Clúster  
MATERIALS AVANÇATS  
DE CATALUNYA

M4  
MetaIndustry4

INDESCAT  
catalan sports cluster

FEDERACIÓ CATALANA  
DE HOCKEY



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in printed electronics

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