





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.

FREE FORM

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

SUSTAINABLE

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

ROBUST

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

COST EFFICIENT

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

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 & INDUSTRALISATION

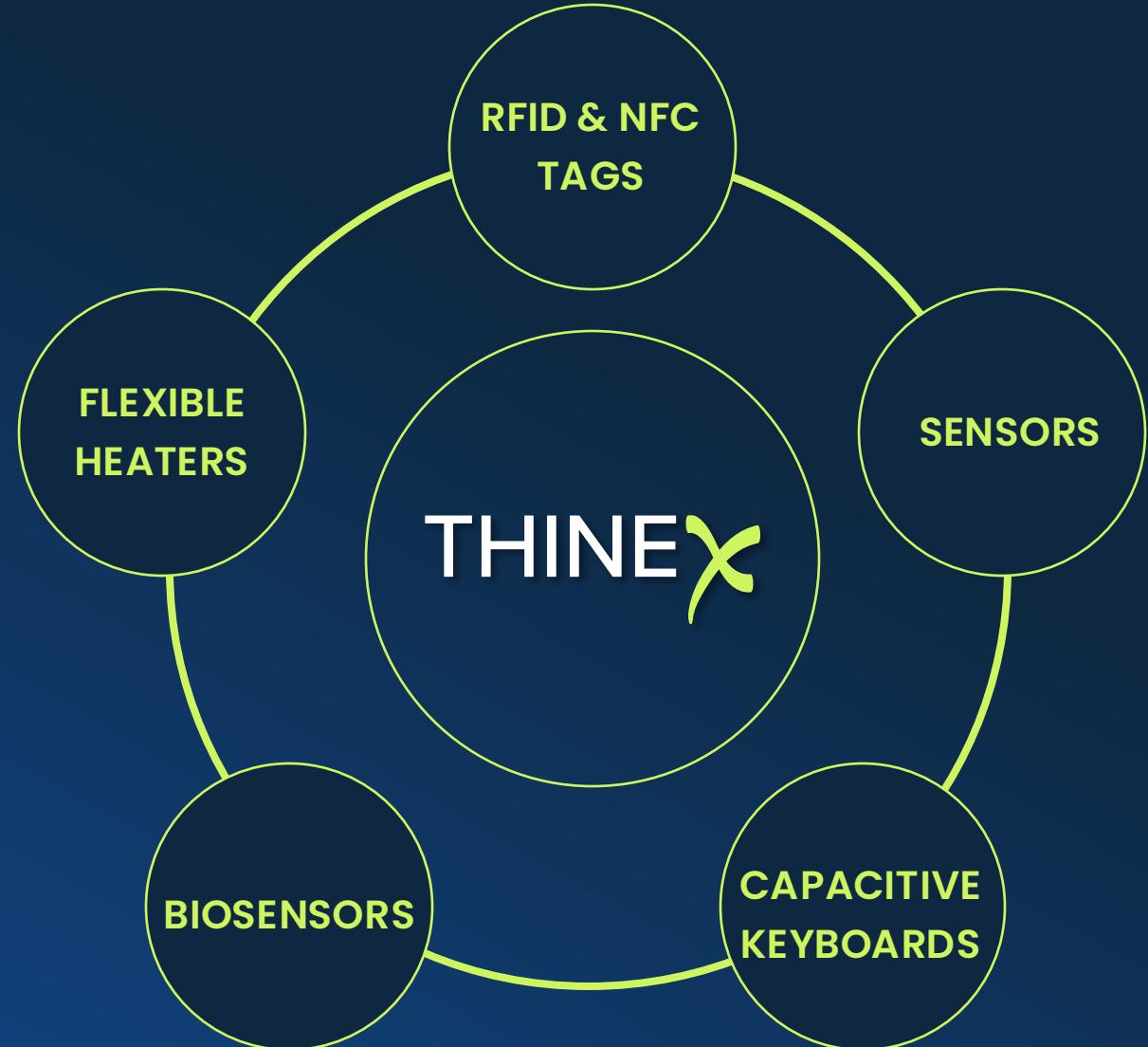
Our facilities include multiple screen-printing lines in controlled environments, allowing us to scale up production with quality, repeatability and competitive costs.

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.

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.



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.



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.



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.



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



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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

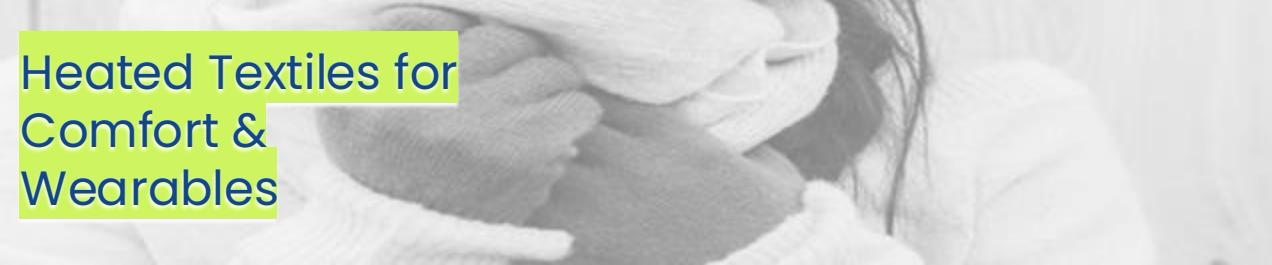
BIOSENSORS

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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

+110
Employees

€27 M

Annual turnover

Operating mainly in

Europe

70%
Export ratio

2%

Of revenue
invested in R&D

CLIENTS AND PARTNERS WHO BACK US

Real partners. Real impact

Graphenica/Lab

Clients

PONSA



onalabs)

ENATE

Applus⁺

compoxi

R&D Gonvarri
Metal Structures

CAT UAV

SPORTS
& LANDSCAPE
by Ignasi Senabre

JUNG

TSK

REGNER[®]

AKOMA

LEAN
HYDROGEN

inFÁRMATE
Atención Farmacéutica Domiciliaria

FLIWER

Pujolàs[®]

PANGEA

comsan
A COMFORT EXPERIENCE

Collaborators

BC
BLUE CIRCULAR
Innovation

BLUE
ROOM
INNOVATION

COOLING
PHOTONICS

TAFCO
metawireless

electrodomas

SOLARBOX
home grown energy

flexiic

KNOW-HOW
INNOVATIVE SOLUTIONS & MANUFACTURING

twentic

embeblue
connecting things

inecfi
GENUINE FINE BLANKING PARTS SINCE 1969

ABC
COMPRESSORS

B
M
Q

JORCAR

RTO Partners

eurecat
Centre Tecnològic de Catalunya

Tekniker
MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

cidetec
surface engineering

CNM
CENTRO NACIONAL DE MICROELECTRÓNICA

AIMPLAS
INSTITUTO TECNOLÓGICO
DEL PLÁSTICO

RIS
SE

ICMAB
INSTITUT DE CIÈNCIA DE MÀTERIALS DE BARCELONA
EXCELENCIA
SEVERO OCHOA

IDONIAL
CENTRO TECNOLÓGICO

UNINOVA
CEMOP
Centre of Excellence in Microelectronics,
Omnitematics and Processes

ceTEM



Clusters &
Associations

FUNCTIONAL PRINT
CLUSTER

PACKAGING
CLUSTER

ambit
LIVING SPACES CLUSTER

Mav
Clúster
MATERIALS AVANÇATS
DE CATALUNYA

Mi4
MetalIndustry4



INDESCAT
catalan sports cluster



Your innovation partner
in printed electronics

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