

We bring your business into the era of **Industry 5.0** and **Accessible AI**



Production
visibility



Operational
and energy
costs reduction



Production
data analysis



Proactive and
predictive
maintenance



Management
systems
integration

Zerynth Industrial IoT & AI Platform

Zerynth Industrial IoT & AI Platform is a comprehensive solution for Industry 5.0, **integrating AI and IoT** to provide an integrated view of the factory through advanced KPIs and **Apps** designed **for the needs of manufacturing companies**.

#DatidaFare



Energy
Consumption
Reduction



Machine
Downtime
Reduction



Maintenance
Expenses
Reduction

The Industrial AI that you really need

Zerynth Industrial IoT & AI Platform is a modular and scalable solution for optimizing, analyzing, and improving industrial production processes.

Edge AI Layer

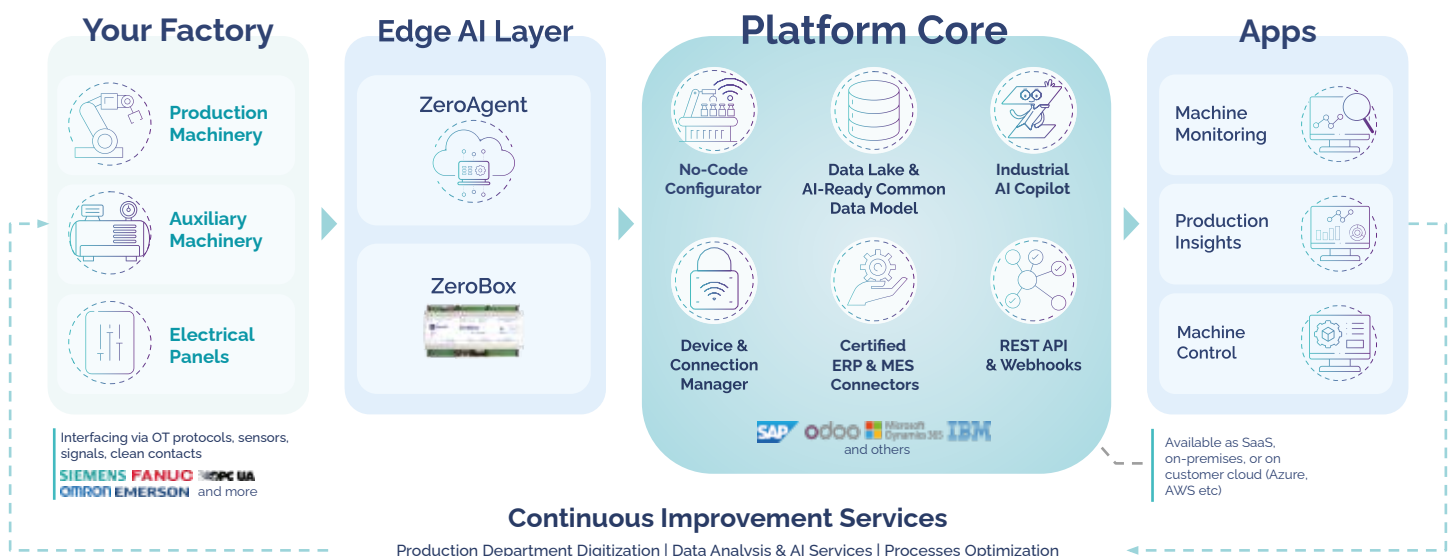
Edge Devices for industrial data acquisition and processing

Platform Core

A key component of the Platform, enabling core functionalities

Apps

Advanced tools for machine monitoring, productivity analysis, and operations



Zerynth Apps

From real-time machine and energy consumption monitoring to advanced production KPI calculation, Zerynth IoT Apps transform raw data into advanced KPIs, accessible via APIs or graphical interfaces, while monitoring machines and energy consumption in real time.



Machine Monitoring

Industrial machine monitoring, energy cost optimization, downtime reduction, and maintenance management.



Production Insights

Production process optimization, productivity improvement (OEE), and visibility into operations and manual workstations.



Machine Control

Remote machine management. Send commands and recipes to PLC. Industry 4.0 compliant.

Zerynth Platform Core

The core element of the Zerynth Platform, to which IoT Apps are added to enable specific functionalities and support every industrial need.

IoT Core

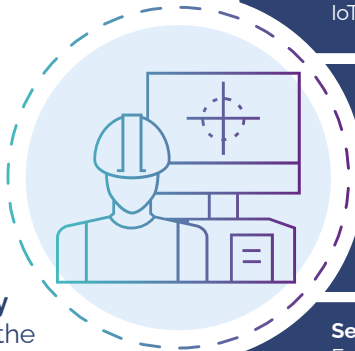
The IoT Core is the heart of an industrial platform designed to manage IoT devices simply, securely, and efficiently.

The setup is quick and easy with the **No-Code Configurator**, allowing machines to be configured without any programming.

The **Device Manager** ensures continuous monitoring, regular updates, and data collection even in varying connectivity conditions. It also offers advanced data processing and integrated mobile SIM management for flexible connectivity.

All data is protected by **robust cybersecurity measures**, utilizing encrypted keys to ensure the highest level of security for sensitive information, maintaining confidentiality and integrity at all times.

Zerynth **easily integrates** with **any existing ERP or MES system**, thanks to its No-Code configuration and certified connectors. This flexibility enables quick connections between machines and IT systems, optimizing industrial processes seamlessly.



Device Manager

IoT device management for data collection.

No-Code Configurator

Remote, guided configuration of IoT devices and apps.

Integrations

Quick integration with MES, ERP, or BI via APIs, Webhooks, and **certified connectors**.

Secure Connection

Encrypted IoT data exchange with TLS v1.2 and v1.3 standards and a crypto element.



Edge AI Layer

How does the connection work?

Depending on the type of machinery and the client's IT infrastructure, the **most suitable device** from the **ZeroBox** family is selected to meet data collection requirements.

Machines and devices are connected via **wired** (Ethernet, RS-485) or **wireless** (Wi-Fi) **channels**, using standard industrial protocols. Data is exchanged with the cloud via the **internet** (Ethernet, Wi-Fi) or a **cellular network** (optional 4G/LTE modem).



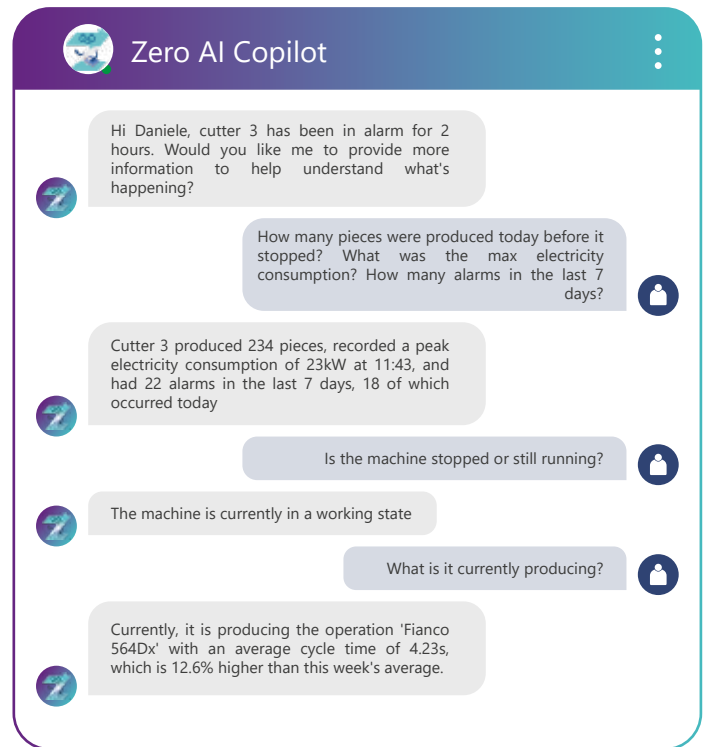
The collected data is processed directly on the device using advanced **Artificial Intelligence** algorithms and then sent to the **Zerynth Platform Core**, where it is displayed and monitored in real time on the portal.

AI Core

AI Core is the engine that makes the platform dynamic, designed to be **human-oriented** and to support decision-making by accelerating data-driven strategic choices.

Thanks to an advanced data organization and storage structure (**Common Data Model**), Zerynth's AI powers advanced data analysis and visualization capabilities (**Dashboarding Engine**).

With **Zero, the GenAI industrial co-pilot**, we offer a new AI-driven business management experience. It supports users comprehensively in data exploration, analysis, and intuitive data interaction, providing real-time notifications.

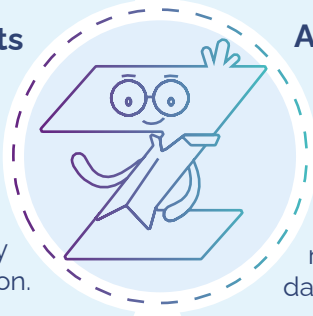


Zero AI Copilot

User support in data exploration, extraction, and information and KPIs analysis.

Smart Reports

Automated and detailed reporting on production, maintenance, and energy consumption.



AI Rules Engine

Rule and flow manager for real-time alarms and notifications on data.

Automatic Time Cycle

Identification and monitoring of optimal reference times for each production phase.

About Zerynth

Zerynth revolutionizes industrial production with an advanced platform that integrates IoT and AI, facilitating the optimization of production processes and reducing energy consumption. Our mission is to enable companies in their digital transformation journey by easily connecting any machinery to a powerful Industrial AI system. With the launch of Zero, the Industrial AI Copilot, we position ourselves as leaders in the field of industrial AI, promoting production efficiency and sustainability.

Our platform allows real-time monitoring of machinery performance, advanced KPI analysis such as OEE, and predictive maintenance. Zerynth seamlessly integrates with ERP, MES, and BI systems, ensuring data security and rapid configurations thanks to the No-Code Configurator.

Founded in 2015 in Pisa, Zerynth serves over 150 client companies across various industrial sectors.

Request a Quote!

Scan the QR code or visit our dedicated page page - zerynth.com/get-a-quote

