



AIKO®

2024 BROCHURE

ATOS SUITE

**TECHNOLOGY THAT REDEFINES THE
MONITORING OF ESSENTIAL MINING
ASSETS**

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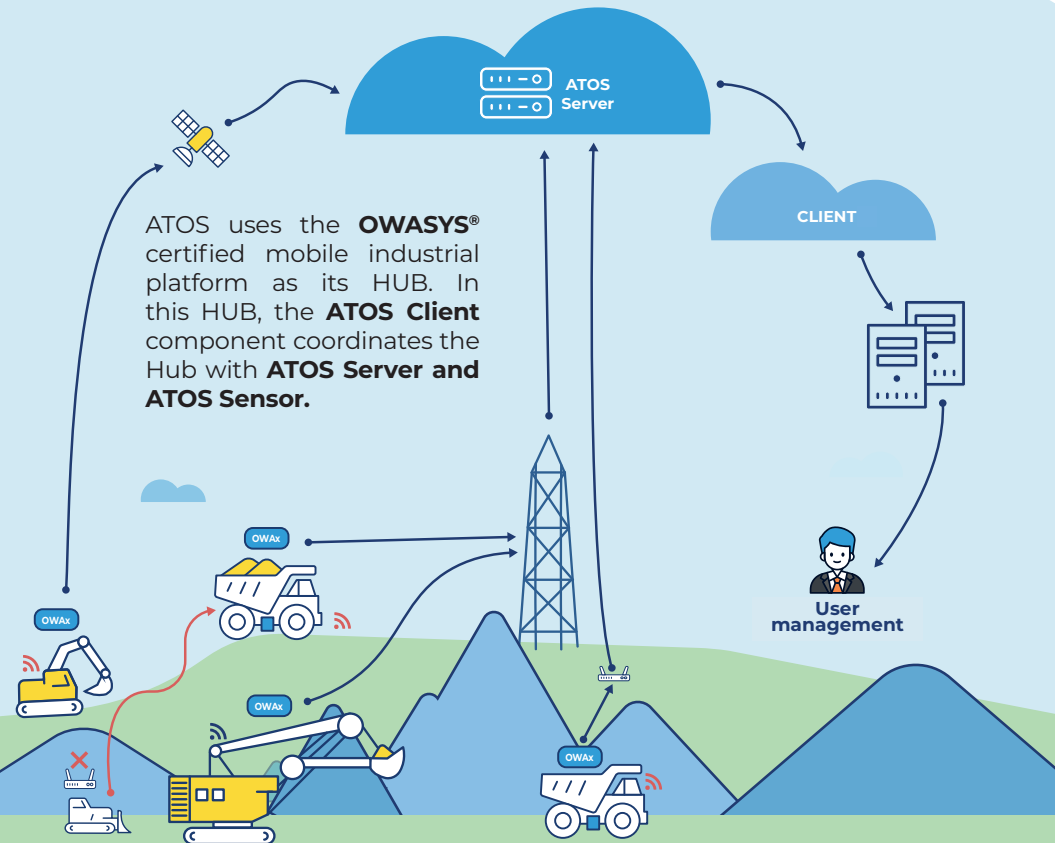
WHAT IS ATOS?

ATOS is AIKO®'s **comprehensive solution that combines hardware and software to monitor the operation of your high-value assets.** Maximize your efficiency with precise, real-time information and with the availability your operation requires.

ATOS SUITE

ARQUITECTURE

Integrate your sensors, from industrial to highly configurable sensors based on complex electronics.



Features	API, Gateway Datalogger Communication channel assurance: MQTT Remote firmware update; Remote update of ATOS modules for new features; Unattended and batch mode updates, group or individual updates, real-time operation parameter updates, real-time monitoring and action on the entire asset fleet, Change and update log. Remote monitoring of sensor operation.
Data integration hub	Owasys® industrial computers, models Owa4x or Owa5x, designed for operation in hostile mobile environments.
Communication interfaces for hardware	RS232, RS485, CAN J1939, Digital inputs, analog inputs
Communication capabilities	LTE Global, 3G/2G fallback, WIFI 801.11. ac, Bluetooth 5.0,
Processing and memory	ARM i.MX8 Plus Quad A53 64-bit 1.6GHz 4GB, 1GB NAND Flash memory + 8/16GB optional eMMC Extension with external SD and/or solid-state M.2
Battery	Power saving modes & Li-Ion backup battery
Base Sensores	GNSS (GPS + GLONASS + QZSS + Beidou) Acelerómetro/GiroscoPIO y Dead reckoning
Management system	ATOS: Client, Sensor & Server Client – Debian 11 Sensor – C / MicroPython (dependent on the sensor electronics) Server – Python (Windows Server) DB: MSSQL

KEY COMPONENTS

1. Software:

A comprehensive software ecosystem made up of three main elements:

ATOS Client: A powerful algorithmic engine that controls and operates the resources of the OWAx hub, allowing synchronization of the ATOS Server with the ATOS Sensor.

ATOS Sensor: A piece of firmware that allows configuration of the operation of any sensor with parameters defined by the user in the ATOS Server.

ATOS Server: Software used by the user to configure the operation of the ATOS Client and ATOS Sensor.

2. OWAx:

High-performance Owasys® industrial computer for sensor connection. It is a hub that **centralizes** all data generated by the sensors. **Here, the data is packaged, stored locally, and sent to the destination server** as soon as a communication channel is enabled. The logic that enables all of the above is provided by the ATOS software components.

3. Sensors:

It allows the integration of **standard industrial sensors to highly configurable complex sensors**. Among the latter are monitoring cameras.

OPTIMIZATION AND PREVENTION AT YOUR FINGERTIPS

MAIN ADVANTAGES

- **Intelligent Maintenance:**
High availability of installed sensors enables predictive maintenance of your assets.
- **Real-time Data:**
Data collected is promptly delivered to the management systems that consume it.
- **Resource Optimization:**
Reduce costs with automatic updates and constant monitoring.
- **Comprehensive Asset Vision:**
Detailed monitoring of mechanical, electrical, and electronic components.
- **Increased Availability, Higher Production:**
Ensuring your sensor platform increases the availability of your productive assets.
- **Total Control:**
Simple and clear control of your sensor platform's operating parameters.

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IN AIKO®, WE PUT TECHNOLOGICAL INNOVATION AT THE SERVICE OF YOUR OPERATION.