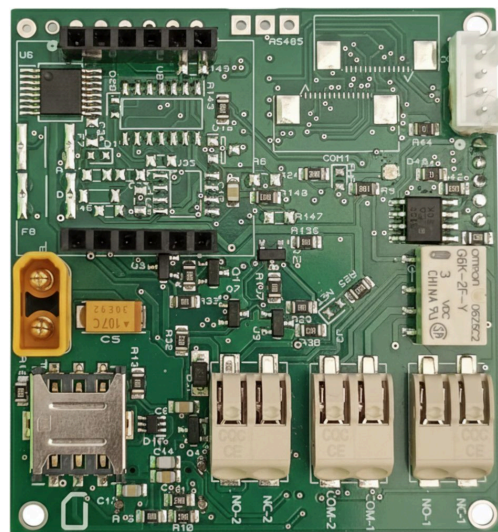


PRODUCT SHEET

AITHA Core

AITHA Core is the common hardware and software base for connected products



Type:
Product sheet

Product:
AITHA Core

System:
AITHANEX (management, data and operations platform)

Audience:
Customer, pre-sales, management and operations

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1.0

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AITHA Core is the common hardware and software base for connected products. It brings together connectivity, positioning, activity logging and remote updates.

It allows connected products to be developed on a shared base, instead of redesigning each device from scratch.

What it solves

Each connected product can start from a common base instead of redesigning electronics, firmware, remote updates and communication from scratch. This eases development and simplifies later operation.

Where it is used

- Routers and communication gateways.
- Asset security devices.
- Electric vehicle chargers.
- Equipment with telemetry.
- Products that need positioning, logging and connectivity.
- Solutions integrated with **AITHANEX**.

Main capabilities

- **Common product base.** Provides a shared architecture for products such as **Router LoRa** (LoRa router/concentrator), **AITHA Protection** (asset monitoring), **OSHTIA EV Charger** (connected EV charger) and **AURA X36** (gateway for distributed signals and sensors).
- **Hybrid connectivity.** Combines cellular networks, Wi-Fi, Bluetooth and other options depending on the product design.
- **Positioning and sensing.** Integrates positioning and motion sensors when the use case requires it.
- **Local logging.** Keeps operational information when connectivity is not available.
- **Remote software update.** Updates and evolves the product without routine physical intervention.
- **Integration with AITHANEX.** Publishes information to AITHANEX or to the customer's backend for operation, visualization and traceability. Alerts from Core-based products can reach the mobile app through **AITHANEX Things**, when the deployment is configured for it.

Main advantages

- **More orderly development.** New products start from a common base of connectivity, firmware and remote operation.
- **Shared maintenance.** Improvements to the base can benefit the different products built on the same core.
- **Less repeated integration.** Telemetry, events, remote updates and communication with the platform are handled by a common architecture.
- **Adaptation per product.** Each device enables only the functions it needs according to its sensors, connectivity and use case.

References

- AITHANEX: <https://aitha.es/en/platform/>
- Router LoRa: <https://aitha.es/en/products/lux-aitha/#lora-router>
- AITHA Protection: <https://aitha.es/en/products/aitha/>
- OSHTIA EV Charger: <https://oshtia.com/en/models/ev-charger/>
- AURA X36: <https://aitha.es/en/products/aura-x36/>

- AITHANEX Things: <https://aitha.es/en/platform/things/>

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