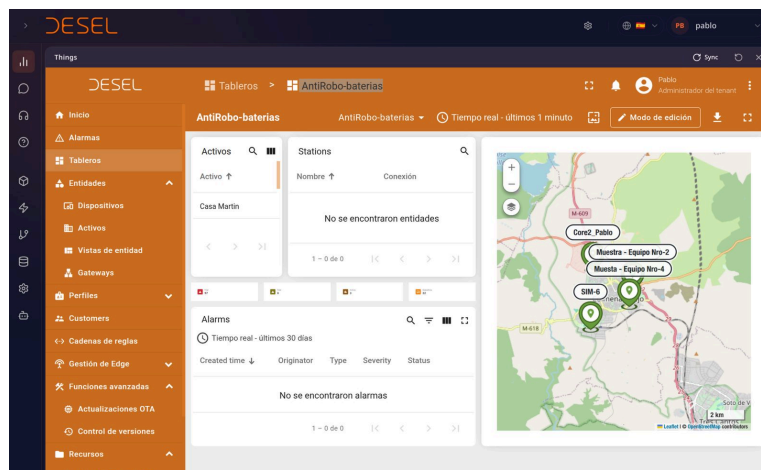


TECHNICAL DATASHEET

AITHANEX Things

Operational IoT platform for telemetry (remote reading of variables and states), control, automation and asset management



Type:
Technical datasheet

Product:
AITHANEX Things

System:
AITHANEX

Audience:
Engineering, operations, integration, support and deployment

Document version:
1.0

Review date:
2026-10-04

Fecha de creación:
04/10/2026

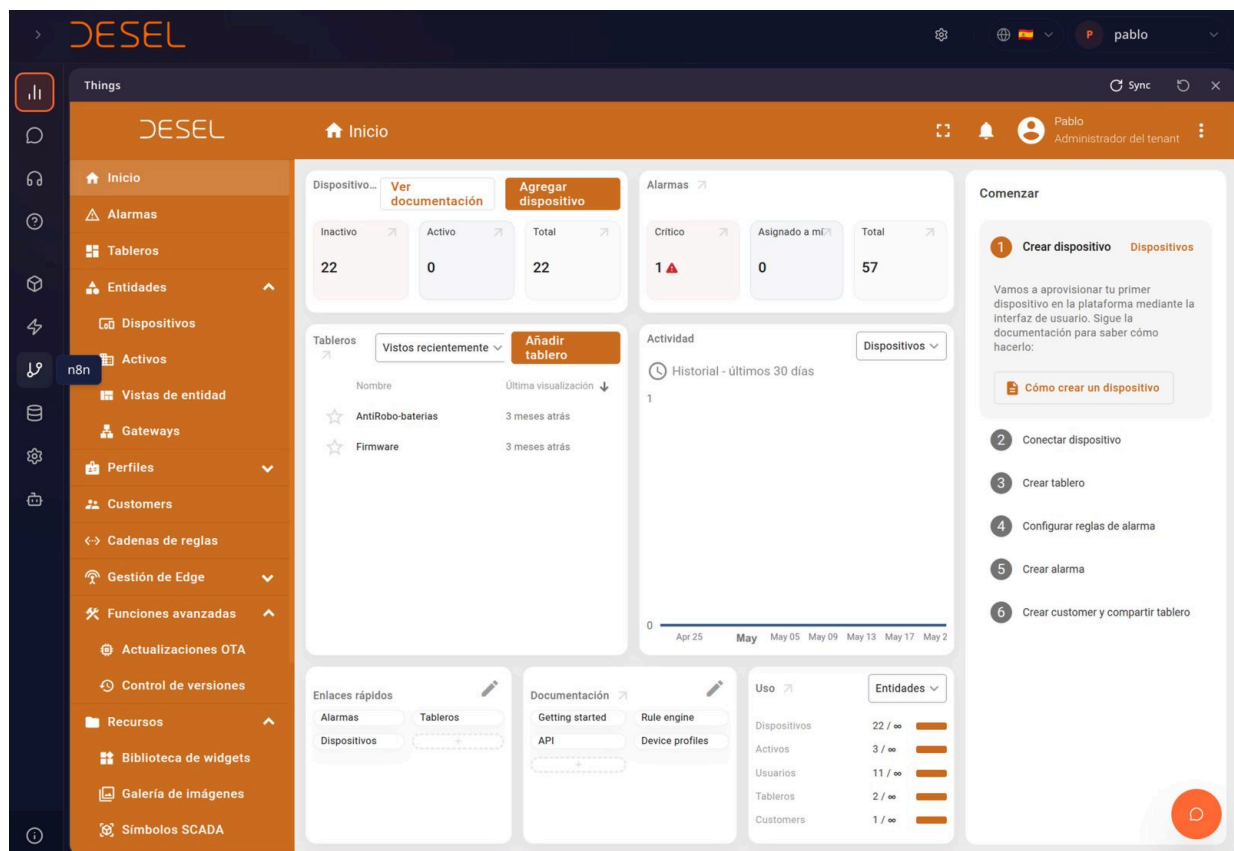
Product type

Operational IoT platform for telemetry (remote reading of variables and states), control, automation and asset management.

AITHANEX Things operates devices, sensors, gateways, chargers, luminaires and mobile assets from a common base.

It offers web, mobile and API channels to operate that technical base without reducing the product to a visualization screen.

Role within the system



AITHANEX Things turns data from connected equipment into manageable operations.

It receives telemetry, validates data, structures assets (asset: any element, device, control point or infrastructure monitored by the system), runs automations and keeps traceability of events and actions.

It can work with the system's own products and with third-party hardware integrated through compatible protocols or APIs.

Technical features

- **Multi-protocol reception.** Receives data from devices, sensors, machines or gateways through MQTT, HTTP, CoAP, WebSocket and APIs depending on the integration.
- **Asset management.** Organizes devices by customer, installation, hierarchy, location and customizable profile.
- **Rules engine.** Evaluates conditions, thresholds, states and events to trigger automatic actions.

- **Alarms.** Detects, classifies, propagates and records operational events with criticality levels and follow-up states.
- **Remote control.** Runs commands on compatible equipment with permissions, traceability and result logging.
- **OTA and configuration.** Deploys firmware, parameters and profiles when the product supports it.
- **History.** Keeps telemetry, events, states, commands and configuration changes.
- **Integration.** Exposes data or actions to AITHANEX AI, ERP, internal systems or external APIs.

Characteristics

Technical area	Support
Protocols	MQTT, HTTP, CoAP, WebSocket and APIs depending on the integration.
Operational data	Telemetry, states, alarms, metrics and events.
Assets	Custom attributes and profiles.
Automation	Visual rules, filters, data enrichment and operational workflows.
Commands	Remote actions on compatible devices.
Visualization	Web control dashboards for monitoring, maps, tables, charts and status cards.
Mobility	Mobile app for notices, operational review, on-site follow-up and dashboards.
Security	Authentication, permissions, segmentation and encrypted communication depending on the deployment.
Multi-tenant	Logical separation by customer and/or installation.

Alarms

The system allows alarms to be configured on telemetry, states, events and operational rules.

Each alarm can be associated with a condition, a criticality level, an asset, an installation and a subsequent action.

Element	Scope
Condition	Threshold, state change, loss of communication, received event or combined rule.
Level	Informational, warning, critical or another level defined by the deployment.
Context	Affected asset, location, customer, installation, group or equipment type.
Action	Notification, escalation or incident logging.
State	Open, acknowledged, under follow-up, resolved or closed according to the defined operation.
History	Record of occurrence, changes, owners, actions and final outcome.

Remote control, OTA and configuration

AITHANEX Things runs remote operations on compatible equipment when the firmware, permissions and connectivity allow it.

- **Remote commands.** Sends secure orders to compatible devices with result logging.
- **Remote configuration.** Applies parameters, profiles or operating changes without traveling to the site.
- **OTA.** Distributes firmware and tracks deployment status per device.
- **Telemetry.** Queries status, metrics, events and the result of remote actions.

Operation interfaces

Operation is carried out from several interfaces, all supported by the same data model.

- **Web dashboards.** Monitoring, control and operational analysis.
- **Maps.** Location, status and territorial grouping of assets.
- **Mobile app.** Notices, operational queries and follow-up away from the control station.
- **AITHANEX AI.** Telemetry queries, operational assistance and controlled actions when enabled.
- **APIs.** Integration with internal systems, ERP or other platforms.

Typical applications

- **Smart City.** Lighting, environmental sensors, urban services and municipal infrastructure.
- **Energy.** Metering, electrical monitoring, consumption alarms and remote control.
- **EV charging.** Monitoring of chargers, sessions, operational status and remote maintenance.
- **Asset security.** Tracking of exposed equipment with logging of movement, impact or tampering.
- **Remote infrastructure.** Telecom huts and cabinets, gateways, electrical cabinets and distributed equipment.
- **Industrial telemetry.** Data from machines, production lines and remote equipment.
- **Fleet management.** Tracking of mobile assets, vehicles, service equipment and distributed devices.

Linked system products

- **AITHA Core.** Publishes telemetry and events to the platform for operation, visualization and traceability.
- **AURA X36.** Connects signals, sensors, actuators and systems with remote operation.
- **AITHA Protection.** Sends movement, impact or tampering events for monitoring and alerts.
- **Lux AITHA LoRa.** Reports the status and consumption of each light point; receives scheduling and dimming commands.
- **Lux AITHA NB-IoT.** Reports the status and consumption of each light point over NB-IoT; receives scheduling and dimming commands.
- **OSHTIA EV Charger.** Reports charger operating data and receives remote control when the deployment provides for it.
- **AITHANEX AI.** Uses telemetry, alarms and states for operational assistance, analysis and controlled actions.

References

- AITHANEX Things: <https://aitha.es/en/platform/things/>
- AITHA Core: <https://aitha.es/en/aitha-core/technical/>
- AURA X36: <https://aitha.es/en/products/aura-x36/technical/>
- AITHA Protection: <https://aitha.es/en/products/aitha/technical/>
- Lux AITHA LoRa: <https://aitha.es/en/products/lux-aitha/technical/>

- Lux AITHA NB-IoT: <https://aitha.es/en/products/lux-aitha/technical/>
- OSHTIA EV Charger: <https://oshtia.com/en/docs/ev-charger/>
- AITHANEX AI: <https://aitha.es/en/platform/aitha-ai/technical/>

AITHANEX Things