

PRODUCT SHEET

Lux AITHA LoRa

Lux AITHA LoRa allows light points to be controlled, scheduled and monitored



Type:
Product sheet

Product:
Lux AITHA LoRa

System:
AITHANEX (management, data and operations platform)

Audience:
Customer, pre-sales, management and operations

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Lux AITHA LoRa allows light points to be controlled, scheduled and monitored.

A luminaire is the physical device that emits light: a street light, floodlight, high-bay or installed LED point. With Lux AITHA LoRa, that luminaire becomes an operational asset: an element that is identified, monitored and manageable from the platform.

It integrates with the platform through **Router LoRa** (LoRa router/concentrator), within the system's own network.

What it solves

In many lighting installations, light points are managed by panel, line or whole zone, as happens in older sodium luminaire networks. This considerably limits monitoring and control of the network: it is not always known which luminaire is failing, how much each point consumes or whether the schedule is running as planned.

There are also deployments where old luminaires have been replaced with LED without remote management. In both cases, the installation cannot adjust consumption to actual need, maintenance costs rise and user satisfaction falls.

Lux AITHA LoRa brings control down to the level of each luminaire. Each asset can report status, consumption and events, receive its own schedule and make adjustments easier without relying on on-site inspections.

The information is centralized in AITHANEX or in the customer's management system, making maintenance, fault detection and schedule adjustments easier.

Where it is used

- Municipal street lighting.
- Industrial estates, logistics warehouses and distribution centers.
- Tunnels.
- Bridges.
- Campuses, hospitals and outdoor car parks.
- Roads, walkways and open areas.
- Existing luminaires with a compatible Zhaga socket.

Main capabilities

- **Point-by-point control.** Switches on, switches off and dims each luminaire individually.
- **LoRa communication.** Connects each light point to **Router LoRa** to send data and receive commands from AITHANEX or from the customer's management system.
- **Zhaga and DALI integration.** Is powered through the Zhaga connector and controls luminaires using the DALI protocol.
- **Status and consumption reading.** Reports consumption, operation and events for each light point.
- **Fault detection.** Identifies failures, disconnections or abnormal consumption without on-site inspection.
- **Scheduling.** Applies schedules, scenes and profiles defined in AITHANEX or in the customer's management system.
- **Synchronization with the platform.** Integrates data, alarms and scheduling within the AITHANEX operations environment.

Main advantages

- **Point-by-point control.** Each luminaire can be managed individually.
- **Group control.** Control by groups is also possible.
- **Status control.** Status and events reach the platform so the network can be visualized properly.
- **Scheduling.** Schedules, scenes and profiles can be adapted per point, zone or operating criterion.
- **Deployment on compatible luminaires.** The Zhaga/DALI connection makes it easier to integrate all kinds of luminaires into the system.

References

- Router LoRa: <https://aitha.es/en/products/lux-aitha/#lora-router>