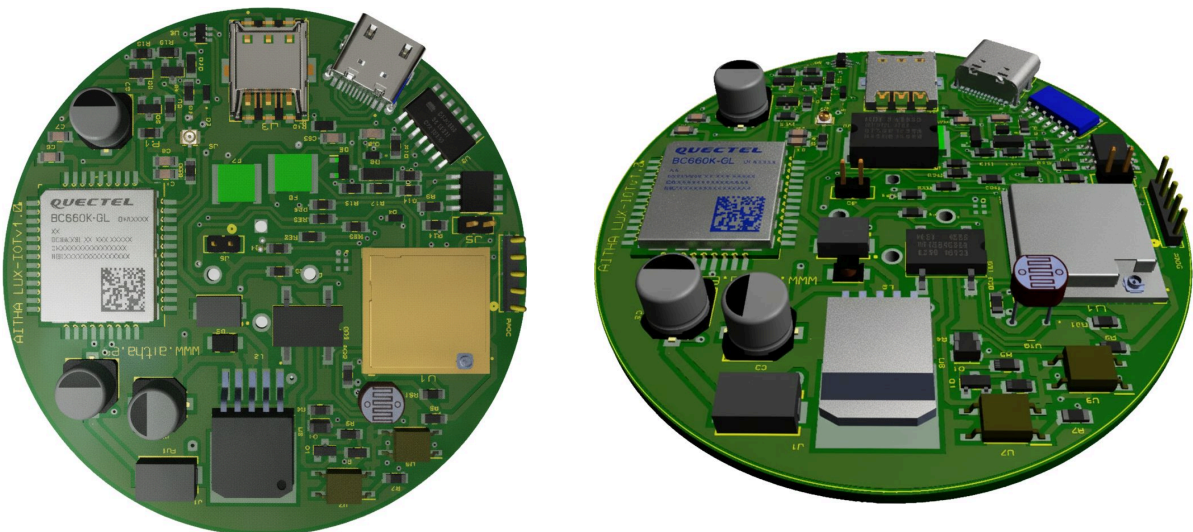


PRODUCT SHEET

Lux AITHA NB-IoT

Lux AITHA NB-IoT allows light points to be controlled, scheduled and monitored through its own NB-IoT connectivity



Type:
Product sheet

Product:
Lux AITHA NB-IoT

System:
AITHANEX (management, data and operations platform)

Audience:
Customer, pre-sales, management and operations

Document version:
1.0

Revision date:
2026-10-04

Lux AITHA NB-IoT allows light points to be controlled, scheduled and monitored through its own NB-IoT connectivity.

Each luminaire becomes an identified operational asset. It can report status, consumption and events, and receive individual or group scheduling.

The product keeps the capabilities of **Lux AITHA LoRa**, but communicates through a SIMCom SIM7080G module (LTE-M and NB-IoT). This architecture avoids depending on a dedicated LoRa router.

What it solves

Many installations manage lighting by panel, line or whole zone. This limits visibility of each luminaire and makes it harder to detect faults, review consumption or confirm the schedule applied.

Lux AITHA NB-IoT brings management down to the level of each light point and uses NB-IoT connectivity to link it to the platform. The information is centralized in AITHANEX or in the customer's management system.

Where it is used

- Municipal street lighting.
- Industrial estates, logistics warehouses and distribution centers.
- Tunnels and bridges.
- Campuses, hospitals and outdoor car parks.
- Roads, walkways and open areas.
- Installations with compatible NB-IoT coverage where deploying a dedicated LoRa network is not planned.

Main capabilities

- **Point and group control.** Switches on, switches off and dims luminaires individually or in a coordinated way.
- **Own NB-IoT connectivity.** Communicates each point through the SIMCom SIM7080G module, without a dedicated LoRa router.
- **Multi-band connectivity.** The module supports NB-IoT bands from different regions; effective coverage depends on the network and operator available.
- **Zhaga and DALI integration.** Keeps the Zhaga format and controls the luminaire through DALI.
- **Light sensor.** Measures ambient light to provide context for monitoring and operation.
- **Status and consumption reading.** Reports operation, consumption and events of the light point.
- **Fault detection.** Helps identify failures, disconnections or abnormal behavior.
- **Scheduling.** Applies schedules, scenes and profiles defined in AITHANEX or in the customer's system.
- **Remote update.** Receives OTA firmware through **AITHANEX Things**.
- **Operational integration.** Centralizes data, alarms, scheduling and remote actions within the operations environment.

Main advantages

- **Independent NB-IoT deployment.** Each point can communicate directly without installing a LoRa network and its dedicated router.
- **Individual monitoring.** The status and events of each luminaire reach the platform.

- **Remote operation.** Scheduling and adjustments can be applied without routine on-site inspections.
- **Functional continuity.** Keeps the operational capabilities of Lux AITHA LoRa with a different communication architecture.
- **Integration with AITHANEX.** Allows lighting, alarms and history to be managed alongside the rest of the connected assets.

References

- Lux AITHA LoRa: <https://aitha.es/en/products/lux-aitha/>
- AITHANEX Things: <https://aitha.es/en/platform/things/>