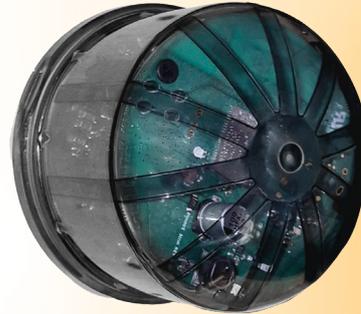


## SOLUTIONS FOR LIGHTING POINTS

### BH NODE COMMUNICATING NODES

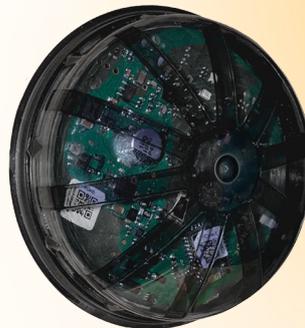
**BH Node** is a communicating node designed for the management of public lighting networks. Installed on each luminaire equipped with a Zhaga connector, it enables remote control and supervision of all lighting points.



> BH NODE GATEWAY



> BH NODE 40



> BH NODE 80

## BENEFITS



### GREATER SIMPLICITY

- ◆ Mesh connectivity: the best network on the market
- ◆ Gateway-free solution
- ◆ LTE-M cellular node
- ◆ DALI / ZD4i compatible
- ◆ Automatic network commissioning



### GREATER SECURITY

- ◆ Luce On Demand smartphone app: in real time and by tracking the user's position, the app switches public lighting on and off
- ◆ Guaranteed switching on and off thanks to the embedded patented socio-astronomical calculation
- ◆ Emergency re-lighting via Luce



### GREATER SAVINGS

- ◆ Management of lighting levels and Christmas illuminations
- ◆ Reduced maintenance through data feedback and reporting
- ◆ Up to 80% savings thanks to precise management of time schedules and lighting levels
- ◆ Even greater savings with lighting on demand



### LOCAL CONFIGURATION AND REMOTE CONTROL

- ◆ Luce App smartphone application: geolocates and registers BH Nodes on Luce during the deployment of a lighting network
- ◆ Luce: for precise supervision of lighting points: communication status, lighting status, schedule and scenario configuration, and forced command transmission

## FEATURES

### SPECIFICATIONS

- ◆ Available in two versions, 40 or 80 mm, standard Zhaga housing
- ◆ Integrated GPS in the 80 mm version
- ◆ The 40 mm BH Node is particularly suited to decorative ("four-sided") lanterns
- ◆ Network synchronization in a maximum of 500 ms
- ◆ The mesh network operates on 40 adaptive radio channels and is able to blacklist congested channels
- ◆ Range is up to 200 m in open field
- ◆ The cellular mesh node can support up to 100 mesh nodes depending on the geographical layout of the installation
- ◆ DALI commands
- ◆ Compatible with Luce and Luce on Demand
- ◆ Remote updates

### CONTROL, MANAGE, AND SCHEDULE

- ◆ Three predefined astronomical modes: Standard Astro, Socio-Astro Eco, and Socio-Astro Comfort
- ◆ Control of lighting patterns using the Auxiliary Relay accessory
- ◆ Up to six drivers with a single node
- ◆ Forced on/off command transmission
- ◆ Management of dimming scenarios with 16 levels per scenario and fade-time configuration
- ◆ Scheduling of scenarios on a rolling annual calendar with priority management
- ◆ Twilight offset

### TECHNICAL SPECIFICATIONS

#### Dimensions:

**BH Node 40:** 40 mm x 24.25 mm

**BH Node 80:** 80 mm x 33.43 mm

**BH Node Cellular:** 80 mm x 58.43 mm

**Protection rating:** IP66, IK09

**Power supply:** 0.45 W – D4i driver

**User interface:** RGB status LED

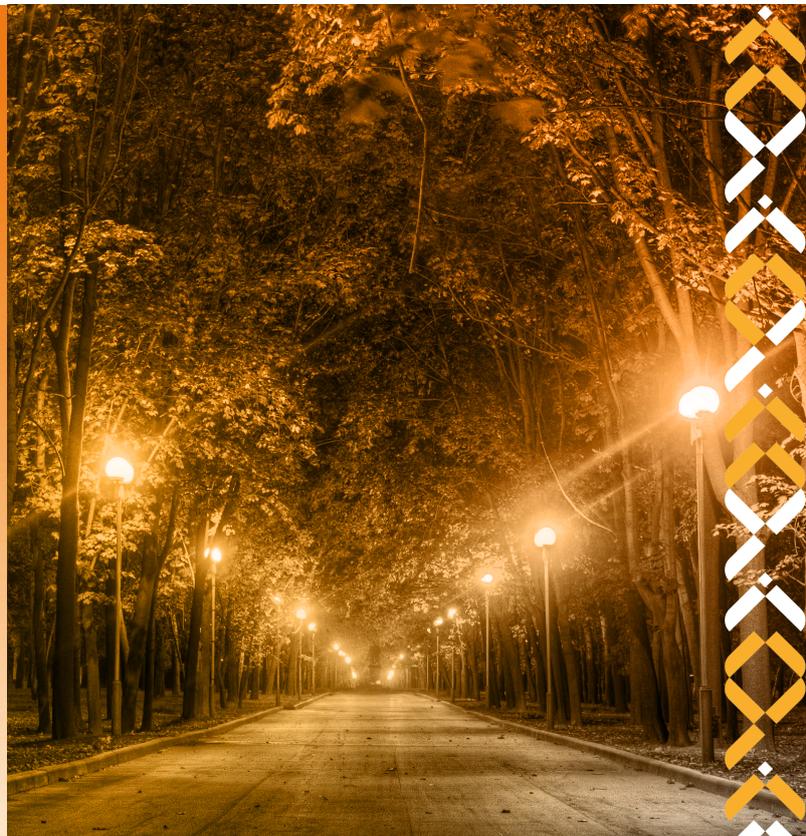
**Radio:** Wirepas mesh, 100 m in open field

**Only for 80 mm:** GNSS, LTE-M Cellular, printed antennas

**Software update:** FUOTA (Firmware Update Over The Air)

**Temperature range:** -25 °C to +70 °C

**Additional features:** Astronomical algorithm, 500 ms sync, I/O E-Lum, Luce On Demand, DiiA 209, 6 slave drivers, BH Technologies API, Luce platform



#### COMMERCIAL REFERENCES

- > **L-BHNODE-40** : Communicating node, 40 mm Zhaga standard housing, mesh radio technology
- > **L-BHNODE-80** : Communicating node, 80 mm Zhaga standard housing, mesh radio, integrated GPS
- > **L-BHNODE-GTW** : Communicating node, 80 mm Zhaga standard housing, mesh radio, integrated GPS and gateway