



Meazon Luminaire ZHAGA Hub provides a complete smart LED lighting solution that creates a backbone network using the city's streetlight infrastructure using ZigBee to connect different types of sensors to measure pollution, weather conditions, parking availability, garbage collection and optional NB-IoT or LTE Cat M1 to communicate the data to the cloud.

<b>Architecture</b>	Zigbee Mesh Network NB-IoT, LTE CAT M1
<b>Frequency band (ZigBee)</b>	2.4 GHz
<b>Frequency band (NB-IoT and LTE Cat M1)</b>	NB-IOT Bands: 20, 8, 3 M1 Bands: 13, 12, 5, 4, 2
<b>Minimum Data report interval</b>	Sub-second (default 5 minutes)
<b>Internal Data Storage</b>	Yes
<b>Security mechanism</b>	AES encryption 128 bits

## Meazon Luminaire ZHAGA Hub

State-of-the-art smart lighting system for analytics, central management, diming and control.

### Description

Meazon's Luminaire ZHAGA Hub provides a plug'n'play, flexible, scalable and cost-efficient platform for municipalities to save energy and maintenance costs. Optionally, comes with build-in temperature sensor, real time clock (RTC), GPS, accelerometer and a high accuracy ambient light digital 16-bit resolution sensor for ambient light detection from 0 lx to about 167 klx.

Luminaire ZHAGA Hub helps municipalities save communication and operational costs for their overall smart city infrastructure. It uses ZigBee to acquire and carry data from different types of sensors that measure pollution, weather conditions, parking lot availability and garbage collection, among others. Offers the option to use NB-IoT or LTE Cat M1 with a fall back to 2G/3G/4G to communicate data to a cloud platform that enables management and troubleshooting.



<b>Operating Voltage</b>	24V DC +/-10%
<b>Electric parameters</b>	Irms, Vrms, Power factor Active Power, *Reading only ,if available, from Driver with DALI.
<b>Build-in Data log record</b>	Up to 3000 records

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<b>Features / functionalities</b>	Dali protocol support – D4i for energy data & alarms Extra pin availability GPS availability depending on model Optional: RTC, Accelerometer, Temperature, light sensor Astronomical clock Scheduler Over the Air firmware upgrade
<b>Coverage</b>	The coverage is extended to the borders of the streetlight network of the city.
<b>Dimensions</b>	D= 83mm H= 36.5mm
<b>Operating environment</b>	Temperature: -20° C to 60° C Relative Humidity: 10% to 90% (RH), non-condensing