



U-Box is the wireless sensor network controller and gateway responsible for transmitting data from the sensors to the Urbiotica – U-Base platform through one of the three available interfaces: Wi-Fi, 3G/GPRS or Ethernet.

The U-Box should be installed on street lamps, spotlights on walls or other street furniture that have access to a 24 hours power supply.

In case of any temporary failures in the power supply, the concentrators will be powered by internal batteries.

Features

- Middleware gateway connection.
- Mesh Network Master.
- Sensor data collector.
- Lifetime up to 12 years.
- Uniquely addressable.
- Remote access for operation.
- Firmware updated remotely.
- Back-Up battery, 4 hours autonomy.
- Easy and fast installation and commissioning.
- Urban friendly design.

Technical specifications



Connectivity	U-Sense 868/915 MHz IEEE® 802.15.4 Compliant 2.45 GHz Wi-Fi, 3G/GPRS & Ethernet
Antenna beam width	868/915 MHz: 180° 2.45 GHz: 180°
Range to communication nodes (U-Flag)	Up to 100 m
Range to sensor nodes	Up to 200 m (regarding sensor type)
Maximum U-Flag per U-Box	40 devices
Power supply and average power	Universal 100 – 240 V AC, 4W
Daily consumption	96Wh/day
Weight	1650 g
Ingress protection	IP54 / IK08 enclosure
Wind resistance	More than 200 Km/h
Temperature operation range	-33°C to 65°C

