

v. 1.0.0  
DATASHEET

# GATEWAY INDOOR



## Born to be smart

Urbana Gateway Indoor is a Plug&Play device for IoT applications. The device incorporates multifunctional interfaces which are able to connect a wide range of devices to Urbana IoT Platform.

Urbana Gateway is a Plug&Play device for integrating any sensor and actuator into the Urbana IoT Platform.

## Connect any sensor and actuator using world class technologies

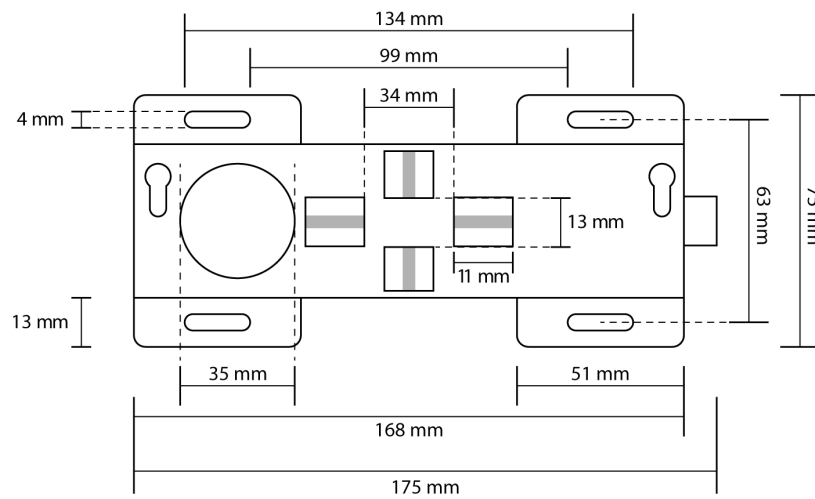
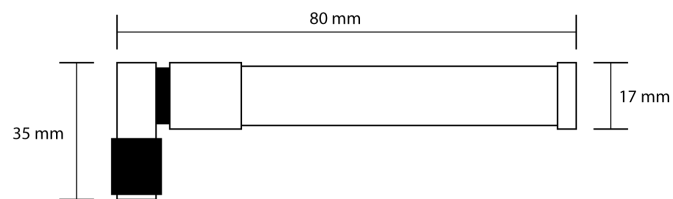
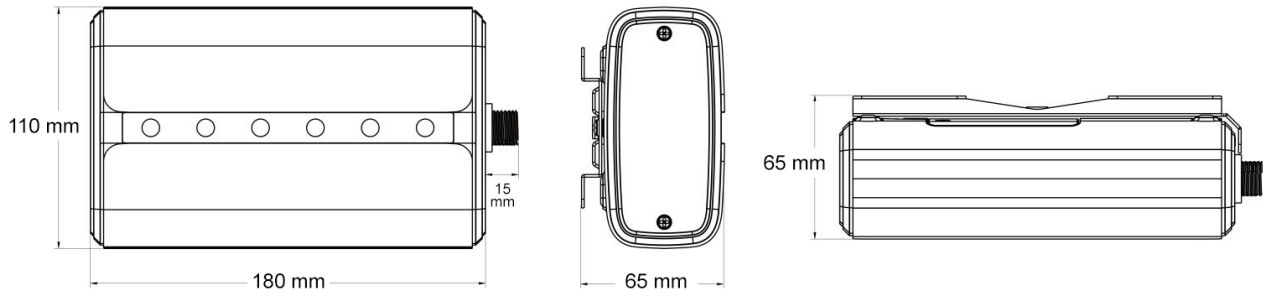
The device deploys LoRa® radio technology for last mile communication. It can operate on 868/915 MHz frequencies with coverage radius up to 5 Km for indoor scenarios.

LoRa® technology provides the highest performances for radio communication in terms of reliability, scalability and obstacles penetration with low power consumption.

## Multi standard device

Connectivity has never been so simple. Thanks to the several interfaces used into Urbana Gateway Indoor, you can easily connect your IoT solutions in a while.

# DEVICE DIMENSION



# TECHNICAL SPECIFICATION

## MECHANICAL

<b>Housing:</b>	Solid Case
<b>Material:</b>	Plastic
<b>Dimension:</b>	180 x 110 x 56.5 mm (without antenna)
<b>Mounting:</b>	Desktop, Wall or Pole

## HARDWARE

<b>CPU:</b>	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
<b>Memory:</b>	512 MB DDR4 RAM
<b>Flash:</b>	8 GB eMMC

## ELECTRICAL

<b>Input Voltage:</b>	9 ~ 24 VDC
<b>Power Input Connector:</b>	DC jack or 802.3 af PoE Connector
<b>Power Consumption</b>	Typical 2.9 W, Max 4.2 W

## ENVIRONMENT

<b>Operating Temperature:</b>	- 40°C to + 70°C Reduce Cellular Performance above 60°C
<b>Storage Temperature:</b>	- 40°C to + 85°C
<b>Operating Relative Humidity (Max):</b>	0% - 95% (non-condensing) to 25°C
<b>IP Rating:</b>	IP65
<b>Certification:</b>	CE, RoHS
<b>Ethernet Insulation:</b>	1,5 kV RMS

## LORAWAN® INTERFACE

<b>Connector:</b>	1 × 50Ω N-Female
<b>Channel:</b>	8
<b>Frequency Bands:</b>	CN470/ IN865/ EU868/ RU864/ US915/ AU915/ KR920/ AS923/ AS923-2
<b>Sensitivity:</b>	-140 dBm Sensitivity @292bps
<b>Output Power (Max):</b>	27 dBm (Max)

## ETHERNET INTERFACE

<b>Port:</b>	1×RJ-45 (PoE PD Supported)
<b>Physical Layer:</b>	10/100/1000 Base-T (IEEE802.3)
<b>Data Rate:</b>	10/100/1000 Mbps (Auto-Sensing)
<b>Interface:</b>	Auto MDI/MDIX
<b>Mode:</b>	Full or Half Duplex (Auto-Sensing)

## WIFI INTERFACE

<b>Standard:</b>	IEEE 802.11 b/g/n
<b>Antenna:</b>	Internal
<b>Mode:</b>	AP or Client
<b>Security:</b>	WPA/WPA2 Authentication, WEP/TKIP/AES Encryption
<b>Power Transmission:</b>	802.11b: 18dBm +/-2.0 dBm (11 Mbps) 802.11g: 15 dBm +/-2.0 dBm (6 Mbps) 802.11g: 15 dBm +/-2.0 dBm (54 Mbps) 802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20) 802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS7_HT20) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)

## CELLULAR INTERFACE

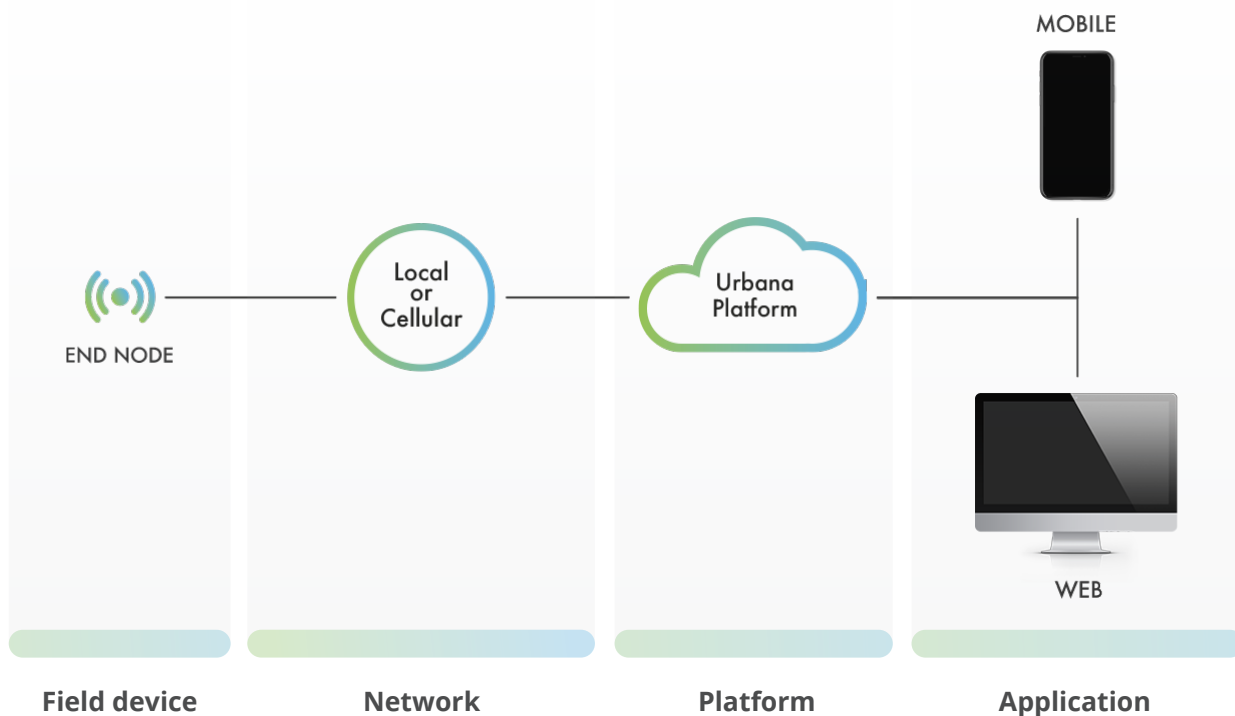
<b>Antenna:</b>	Internal
<b>Slots Sim:</b>	x1 mini SIM-2FF

## COMPLIANCES

<b>Council Directive</b>	2014/53/EU
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# URBANA IoT PLATFORM

Urbana platform is designed to provide end-to-end IoT solutions from hardware to software. The core structure of the platform is based on a scalable distributed and containerised infrastructure maintaining the requirements of clients to scale up whenever needed. The tech stack used in Urbana allows us to have no restriction based on number of devices, features, users and availability. With use of these highly scalable and available databases, Urbana IoT Platform is able to provide advanced reporting and fallback mechanism to provide high level of reliability. One of the most important components of the Urbana IoT Platform is the MQTT broker (server). The MQTT layer is the gate that connects the cloud-based part of the infrastructure to the local field network of devices. It plays a critical role both in terms of security and scalability but also in terms of interoperability. Urbana infrastructure can interface with any device compliant with LoRaWAN® network protocol as standardized by the LoRa Alliance®. Urbana Smart Solutions, being an end-to-end provider, have in-house LoRaWAN® gateways readily for the clients if needed, which are Plug&Play compliant with all the Urbana devices.



Gateway Indoor - GI03  
Datasheet

## CONTACT US

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