

## Gateway IoT

The Gateway is a device that allows the integration of IoT controller focused on the city managers. With a simple connection to Ethernet, Wi-Fi, 3G/4G (or NB-IoT optionally), you can manage and configure these devices. These devices work autonomously and are synchronized with our Web Cloud platform and/or other third-party applications.



## Benefits for your City

- ✓ Energy savings
- ✓ Maintenance cost reduction
- ✓ Remote management and monitoring
- ✓ Wireless platform for Smart Cities



## Main applications

-  **Smart metering**  
Telemetry for water, gas and energy
-  **Smart cities**  
Streetlights controllers and parking management
-  **Smart building**  
Alarm systems, HVAC, access control
-  **Agriculture and environment**  
Land and environment monitoring



## CPU Unit

<b>Processor</b>	Quad Core 1.2GHz
<b>CPU architecture</b>	64 Bit
<b>RAM Memory</b>	2GB RAM DDR3
<b>Storage Memory</b>	MicroSD card slot
<b>RTCC</b>	Real Time Clock Calendar with battery backup
<b>System</b>	Linux Debian based and Huawei Lite OS, allowing an plug and play integration with NB-IoT and Huawei IOT platform

## Interfaces

<b>Ethernet</b>	RJ45 Ethernet 10/100/1000 Mbps												
<b>Bluetooth</b>	Bluetooth V4.0 with integrated Class 1.5 PA												
<b>Wi-Fi</b>	IEEE 802.11 b/g/n standard (up to 72.2Mbps)												
<b>Misc</b>	<b>Others:</b> FOTA (Firmware Over-The-Air) Firmware update via USB/UART Embedded TCP/IP stack Support AT commands 3GPP TS 27.007 and 27.005 Huawei extended AT command												
<b>Cellular Network Interface</b>	Worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage LTE Version 3GPP E-UTRA Release 10												
	<table border="1"> <tr> <td><b>LTE</b></td> <td>LTE-FDD Max. 150Mbps (DL) Max. 50Mbps (UL) LTE-TDD Max. 150Mbps (DL) Max. 50Mbps (UL)</td> </tr> <tr> <td><b>DC-HSPA+</b></td> <td>Max. 42Mbps (DL) Max. 5.76Mbps (UL)</td> </tr> <tr> <td><b>UMTS</b></td> <td>Max. 384Kbps (DL) Max. 384Kbps (UL)</td> </tr> <tr> <td><b>TD-SCDMA</b></td> <td>Max. 4.2Mbps (DL) Max. 2.2Mbps (UL)</td> </tr> <tr> <td><b>EDGE</b></td> <td>Max. 236.8Kbps (DL) Max. 236.8Kbps (UL)</td> </tr> <tr> <td><b>GPRS</b></td> <td>Max. 85.6Kbps (DL) Max. 85.6Kbps (UL)</td> </tr> </table>	<b>LTE</b>	LTE-FDD Max. 150Mbps (DL) Max. 50Mbps (UL) LTE-TDD Max. 150Mbps (DL) Max. 50Mbps (UL)	<b>DC-HSPA+</b>	Max. 42Mbps (DL) Max. 5.76Mbps (UL)	<b>UMTS</b>	Max. 384Kbps (DL) Max. 384Kbps (UL)	<b>TD-SCDMA</b>	Max. 4.2Mbps (DL) Max. 2.2Mbps (UL)	<b>EDGE</b>	Max. 236.8Kbps (DL) Max. 236.8Kbps (UL)	<b>GPRS</b>	Max. 85.6Kbps (DL) Max. 85.6Kbps (UL)
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Backward-compatible with existing EDGE and GSM/GPRS networks, which ensures that it can be connected even in remote areas devoid of 4G or 3G coverage													
<b>GNSS (optional)</b>	GPS/GLONASS												
<b>USB 2.0</b>	2 USB ports												

## IoT Interface Communication

<b>Narrowband IoT (NB-IoT) (optional)</b>	<b>Data rate:</b> LTE category NB1: Single-tone uplink (up to 27.2 kbps DL, 62.5 kbps, up to 62.5 kbps UL - up to 27.2 kbps DLUL) 3GPP Release 13 FDD Band 8, 20 Europe
	SIM card slot
<b>Sub-1Ghz ISM Communication</b>	<b>Frequency range:</b> 868 / 915 MHz ISM bands
	<b>Sensitivity:</b> -121 dBm
	<b>Output power range:</b> 20 dBm Max
	<b>Data rate:</b> 0.123 to 256 kbps
	<b>Modulation:</b> FSK, GFSK, and OOK
	Digital RSSI
	Mesh proprietary protocol
1 km max. open field range	

## Environmental Specification

<b>Operating Temperature</b>	-20°C to 70°C
<b>Storage Temperature</b>	-40°C to 85°C
<b>Humidity non-condensing</b>	10% to 90%, RH non-condensing

## Electrical Specification

<b>Power Consumption</b>	5 Watts typical (10W max.)
<b>Input Voltage</b>	110 - 230 VAC 50 - 60Hz
<b>Electric Protection</b>	Class II: overload, short-circuit and over-temperature protection
<b>Electric Safety</b>	Galvanic isolation between high-voltage and low-voltage terminals

## Physical Specification

<b>Dimension</b>	154 x 179,50 x 52 mm
<b>Weight</b>	640 g
<b>Product Mounting</b>	Wall or cabinet mounting

Cofinanciado por:



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Fundos Europeus  
Estruturais e de Investimento



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