

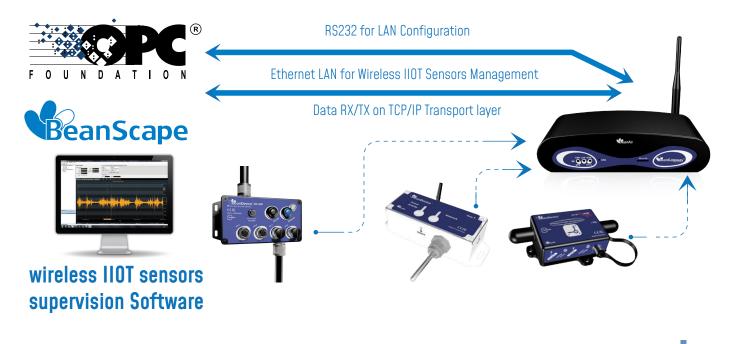


A MULTI-PROTOCOL WIRELESS IIOT SENSORS COORDINATOR

The BeanGateway[®] 2.4GHz Ethernet is used to build and manage Beanair[®] wireless IIOT sensors.

It can manage queues for every network element (BeanDevice[®] 2.4GHz). As a gateway, it controls the external access to the network through a highly secured authentication procedure. It supports the conversion of data exchanged, compression and IP connectivity with the network thereby reducing the intelligence required in these platforms, maintenance and therefore the associated cost.

The BeanGateway[®] 2.4GHz Ethernet is also equipped with various communication interfaces with the customers IT infrastructure (RS232, Ethernet - TCP / IP / UDP / DHCP / DNS). With a client application TCP / IP, it can easily connect to a local application server (via the Ethernet).



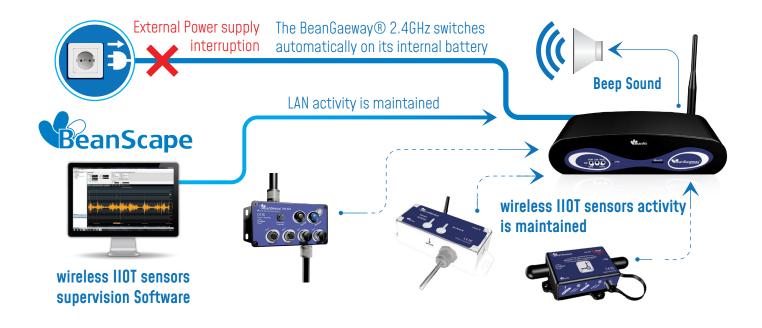
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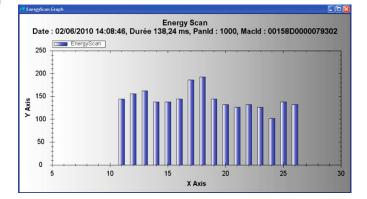
ADVANCED UNINTERRUPTIBLE POWER SUPPLY (UPS)

BeanAir WIRELESS HOT SENSORS

The BeanGateway[®] 2.4GHz Ethernet operates with an external power supply (DC 8-28V). An integrated rechargeable battery with a capacity of 950mAh is used as an UPS battery (uninterruptible power supply). The internal battery provides instantaneous protection from external power supply interruptions, the Wireless IIOT Sensors activity & Ethernet LAN activity are maintained during this time (3h00 to 3h30 approximately). An internal buzzer emits a beep sound every 2 seconds in case the external power supply is disconnected.



EMBEDDED WIRELESS IIOT SENSORS DIAGNOSTIC TOOL



The BeanGateway[®] 2.4GHz Ethernet provides a wireless IIOT sensors diagnotic tool useful for resolving some common networking troubleshooting :

- Energy Scan for choosing the more appropriate RF Channel
- BeanDevice® 2.4GHz PER (Packet Error Rate) calculation
- LQI (Link Quality Indicator) between the BeanGateway® 2.4GHz Ethernet and the BeanDevice® 2.4GHz





BeanGateway INDOOR

TECHNICAL SPECIFICATIONS

PRODUCT REFERENCE		
BGTW-2.4GHZ-ETH-IND		
WIRELESS IIOT SENSORS COORDINATOR		
Wireless Technology	Ultra-Low Power and license-free 2.4Ghz radio technology (IEEE 802.15.4E)	
WSN Topology	Peer-to-peer/ Star	
Raw data rate	250 Kbits/s	
RF Characteristics	ISM 2.4GHz – 16 Channels	
RF Transmit power	+18 dBm	
Receiver sensitivity	-104 dBm	
Maximum Radio Range	1 km (Line of Sight), 70-150m (Non Line of Sight)	
Built-in WSN Diagnostic tool	 Energy Scan for choosing a suitable RF Channel BeanDevice[®] PER (Packet Error Rate) calculation LQI (Link Quality Indicator) between the BeanGateway[®] and the BeanDevice[®] 	

· RF channels Blacklist

ETHERNET/LAN NETWORK

Network/Transport Protocol	Client TCP/IP, UDP, DNS, DHCP
Data Link Protocol	Ethernet / Fast-Ethernet with auto-uplink (MDI/MDI-X auto) - IEEE 802.3x
IP Addressing	Dynamic (DHCP) or static
IP configuration	LAN parameters (DNS, DHCP, Keep Alive) are configurable from the BeanScape [®] (UDP/Ethernet Interface).

PHYSICAL & ENVIRONMENTAL

Dimensions (L x l x h)	200 mm x 88 mm x 48 mm
Enclosure/Finish	Polycarbonate Enclosure - Protection ULV94/Getex
Weight	370g
Operating temperature	-20 °C to +65 °C during battery discharge 0 to 45°C during battery charge
Norms and Radio Certifications	CE Labelling Directive R&TTE (Radio) ETSI EN 300 328 · FCC (North America) · ARIB STD-T66 Ver 3.6 · ROHS - Directive 2002/95/EC





BeanGateway INDOOR

TECHNICAL SPECIFICATIONS

POWER SUPPLY	
Power Consumption	250 mA to 300 mA during wireless RX/TX and Ethernet activated
External power supply	8-28 VDC, integrated Lithium-Ion battery charger with high-precision battery monitoring
Integrated Lithium-Ion Battery	Lithium-Ion rechargeable battery 950 mAh (reference BAT0.95DMG) In case of external power supply failure, the BeanGateway® can switch on the internal battery

INCLUDED ACCESSORIES

High gain antenna 5 dBi

· Cable length: 2 meter

Wall plug-in, Switchmode power Supply 12V @ 1.25A

· V.Š.W.R : 1.5 :1 · Connector : RPSMA

· RJ45 Male

2.4 GHz Antenna

Ethernet Cable

Wall plug-in power supply

OVERVIEW BEANGATEWAY® INDOOR

