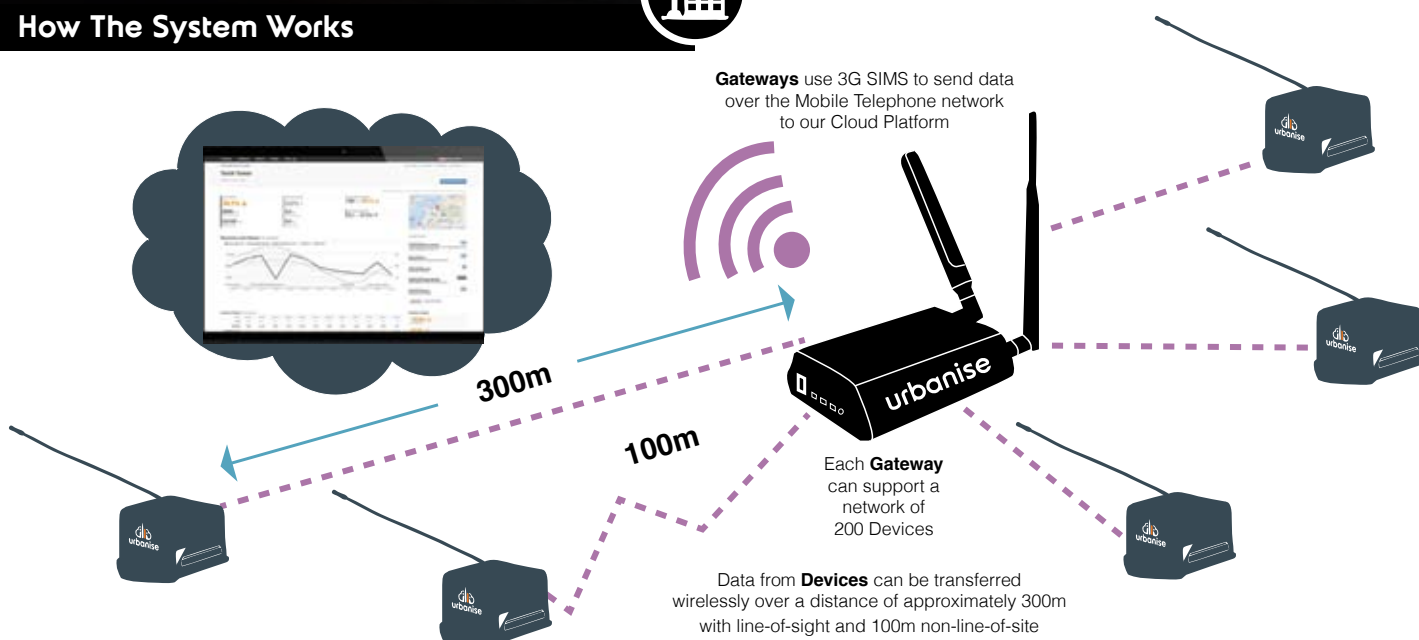# Wireless M2M Gateway

Technical Overview

General Description

The Urbanise M2M Gateway allows your Urbanise Sensors to communicate wirelessly to your cloud based Monitoring and Notification System via mobile telephone networks. This is the perfect solution for remote or retrofit locations where traditional networks or cabling is not an option.

The gateway is based on (3G/GSM/GPRS) mobile network technology and comes pre integrated for use with all Urbanise wireless sensors. The Wireless M2M gateway is specifically designed to enable simple, low cost remote wireless sensor management solutions that do not require specialist technical skills for installation

How The System Works

URBANISE M2M Gateway Features

- Compatible with 140 mobile network operators globally
- Operation modes: GSM, GPRS, EDGE, WCDMA, HSPA
- Operating Frequencies: 900, 1800
- True plug & play, no hassles for internet configuration set-up
- No PC required for operation
- Remote software upgrade capability
- Local status LEDs with transmission and online status indicators
- 50,000 sensor message memory
- Battery backup for up to 24 hours operation without power.
- AC power supply

Applications

- Building System Monitoring
- Energy Management
- Automated Meter Reading
- Remote Asset Monitoring
- Agricultural Monitoring
- Construction Site Monitoring
- Data Center Monitoring

Gateways use 3G SIMS to send data over the Mobile Telephone network to our Cloud Platform

300m

100m

Each **Gateway** can support a network of 200 Devices

Data from **Devices** can be transferred wirelessly over a distance of approximately 300m with line-of-sight and 100m non-line-of-site

Can be retrofitted into any location in less than 10 minutes, with no special equipment.

urbanise

Urbanise Cellular Gateway - Specifications

Cellular

Cellular Technology	HSPA (3G) Frequency Range: 850 / 900 / 1800 MHz
Antenna	Connector: SMA Gain (dBi): 1.5

Power

Input Power	6V DC @ 2.5 A
Battery Backup	Battery Type: Rechargeable Lithium Polymer Battery Duration: Up to 24 hours Battery Cycle Life: 500 times

Mechanical

LEDs	Cellular Status LED, Online Status LED, Sensor Network Status LED
Device Memory:	50,000 sensor messages (Sensor messages will be stored in the event of Internet outage and transferred when connection is restored)
Enclosure	ABS
Dimensions	12.7 mm x 97 mm x 38 mm
Weight	200g

Environmental

Operating Temperature	-10 to +70 °C
Storage Temperature	-20 to +85 °C
Certifications	CE Complies with IDA Standards DA107306 R-NZ

Product Variants

868MHz Radio Network - Certified for Europe, Middle East, Africa	Product Code: UBG-8-3C3I-SC-B1-ND
433MHz Radio Network - Certified for South East Asia, Australia, New Zealand	Product Code: UBG-4-3C3I-SC-B1-ND