



THE MILL, MORETON BAY



3.1.4 LoRaWAN Gateway

Purpose

The LoRaWAN is a Long Range Wide Area Network protocol designed to wirelessly connect low-powered devices to internet applications over long range wireless connections. LoRaWAN operates on the unlicensed radio spectrum, eliminating the payment of fees for transmission rights.

A network of SMART.NODES™ is required to deliver Communication Gateways such as LoRaWAN, via the ethernet cable infrastructure, which are monitored by a number of communication protocols.

Equipment List

Device used for the LoRaWAN gateway is as follows:

- MultiTech Gateway

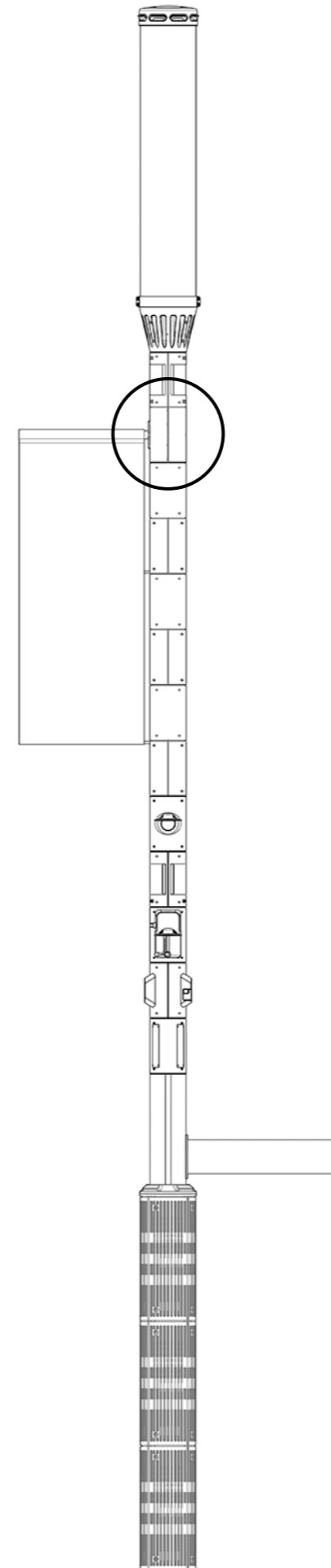
Control System

LoRaWAN gateway data is visualised, controlled and analysed through the e³ CMS platform.

Performance Data

For detailed information please refer to the product specification datasheet.

- Multiple versions are available around the world
- LoRaWAN gateways operate on numerous frequency and communication platforms
- Communications are conducted through ethernet and optical fibre backbone



LoRaWAN Gateway Access Points Currently Accommodated by SMART.NODE™			
The LoRaWAN Gateway allows for communications to a variety of device on a sub-giga-hertz frequency over large distance (line of site) of up to 20 kilometre and in built up populaces to be meshed and bonus between device. LoRaWAN allows for a multitude of device to be able to communicate back to the S.N. and uses the optical fibre high speed network to then push this information to the CMS platform.			
Brand	Model	Specifications Summary	
Multitech	MultiConnect® Conduit® (AU915-AS 923)	Pwr Consumption	9 VDC 1.7A
		Output	LoRaWAN Frequency 915MHz & 923MHz
		Dimensions	161.3(L) x 107.4(W) x 42.8(D)
		Communication	4/5G, Ethernet (10/100)
		Class	A, B and C
STILL IN R&D AND CMS INTEGRATION			

THE TECHNOLOGY ACCOMMODATED BY THE SMART.NODE™ IS CONTINUOUSLY EVOLVING. ENE.HUB CAN INVESTIGATE THE ACCOMMODATION OF ADDITIONAL SMART CITY SERVICE DEVICES.