

## TECHNICAL SPECIFICATIONS

# SmartSpots

Our SmartSpots are multifunctional communications gateways that relay live parking event data from on-site sensors to Smart Parking's IoT SmartCloud platform, via the internet.

### Overview

Whenever we deploy our SmartPark system at a site we install multiple SmartSpot units. These open gateway platforms provide areas of connectivity that we call SmartZones, SmartZone gateways are powerful and scalable smart city building blocks designed to provide a common IoT gateway in a single unit. By offering co-operative services such as flexible connectivity and networking we enable operators to deliver a wide range of additional smart city service, all connecting through a single SmartSpot zone. This means less hardware cluttering up city streets, and a more streamlined way of managing a raft of smart city services.

### Features and benefits

- Industry compatible with Power over Ethernet (PoE) power.
- Optional battery/solar PoE connected power pack.
- Multi-band global 3G based uplink communications with integrated global SIM (activation is bundled with the SmartCloud service) with a failover option to a second SIM/ carrier if required.
- Dynamic star mesh networking for high availability and reliability of vehicle detection sensor communications.
- Ultra Low Power vehicle sensor communications management and aggregation.
- Synchronized UTC realtime clock for accurate time reference for all message timestamps and vehicle detection sensor clocks/events.
- Independently validated for accuracy and compliance.
- Over-The-Air (OTA) provisioning, configuration management, firmware updates.
- Automatic, Rugged and Robust – dependable network coverage for smart sensors and devices.
- Easy, automated activation via an Android based device activation app.
- IP-67+ rated, low-mass, high strength aluminium alloy construction.
- Site planning RF Survey system to guarantee optimal SmartSpot placement for coverage and high availability operation.
- Pole and/or wall mounting fixtures.
- No conflict, independent co-existence with existing IT infrastructure.
- Centrally managed and operated from the SmartCloud service platform.
- Simple, Plug'n'Play deployment and activation.
- Delivers multi-purpose communications base station for open extensible support of common services such as WiFi, video/audio monitoring, digital displays, smart lighting control, other sensors, and more – all from a single installed network gateway subsystem.
- Enables powerful strategic options for SmartZone infrastructure – including future open IoT opportunities.
- An exclusive and unmatched Smart Parking innovative development.