

LYNX SENSOR – 900MHz DM Mag Sensor (AU)

P/N: LYNX-sensorMAG-DM-10X

Features:

- Dual beam magnetic sensor - ability to detect metal objects 60cm away, speed and direction of movement.
- Communications utilising Digi's 900MHz Digimesh topology - easily paired with a Gateway or similar modules.
- Small footprint pod sensors.
- Low power consumption - long battery life (Lithium batteries up to 5+ years).
- Detection of vehicles at all speeds.
- Ease of installation - no cabling.
- Ease of Support - regular maintenance is not required.
- Low capex and opex - no annual maintenance.

Typical Applications:

- Smart Cities applications.
- Public spaces parking management.
- Indoor & outdoor parking management.
- Camping and Caravan site management.
- Vehicle access gate controls.
- Traffic flow direction.
- Traffic flow speeds.
- Intelligent Traffic Systems.
- Roads Authorities applications.

Product Diagram:

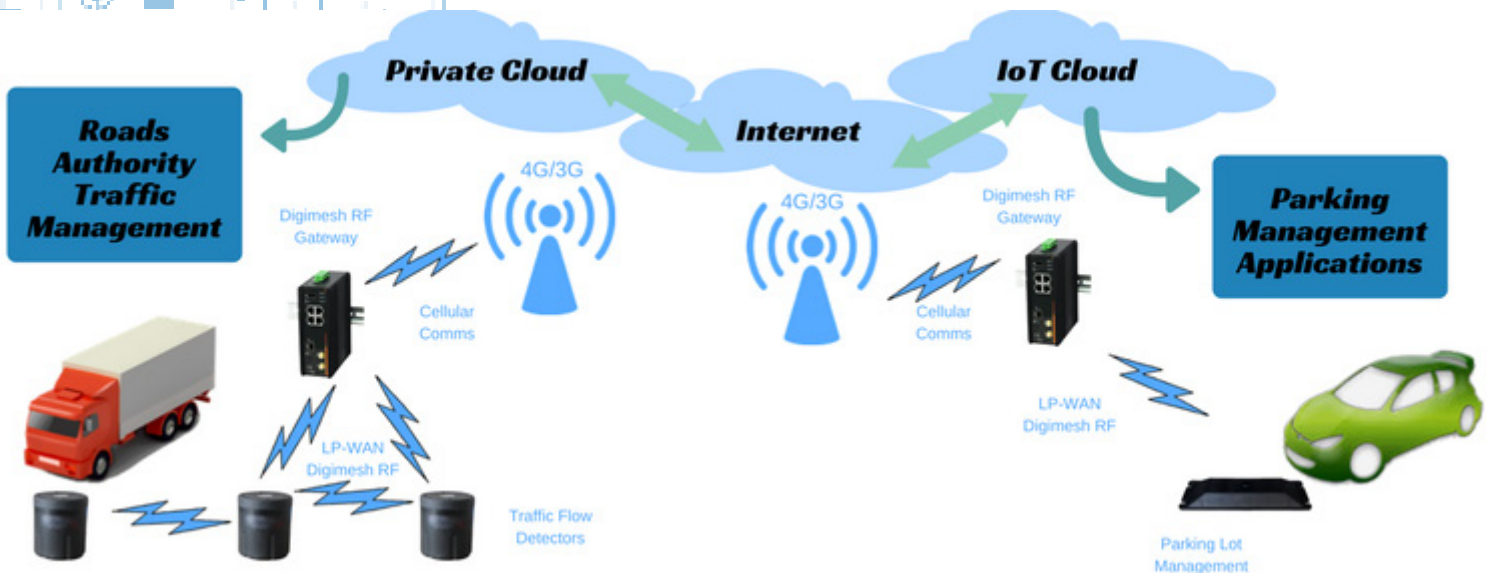
LYNX-sensorMAG-DM-101 =
LYNX Magnetic Sensor POD 900MHZ Digimesh, incl batteries.



LYNX-sensorMAG-DM-102 =
LYNX Magnetic Sensor PAD 900MHz Digimesh, incl batteries.



Applications:



Specifications:¹

Performance

Detection Range: 60cm
 Battery Life: 5+ years
 Accuracy: 99%
 Comms Range: Up to 14 Km on 10 Kbps
 Up to 6.5 Km on 200 Kbps

Device Interfaces

Comms Module: Digi Xbee PRO 900HP 250mW
 Data Interface: Data over Digimesh RF
 Antenna: Integrated into pod
 XX dBi gain

Device Control

Commands: Remote via Digimesh RF (serial data)
 Data: Data Rx via Digimesh RF (serial data)

WAN Functions

LPWAN: Meshing protocol based on Digimesh
 Many-to-many configuration
 Advanced RF network configurations
 AES 128-bit encryption

Data Flow: Digimesh RF transport of serial data
 Digimesh RF 900HP gateway or module needed
 to break-in or break-out of the network.

Management

Configuration: Remote AT commands via Digimesh RF
 Monitoring: Push/pull status via Digimesh RF
 Events: Push events via Digimesh RF

Device Air Interface

Frequency Bands: FHSK
 Tx and Rx on 915-928 MHz
 Max Tx Power 24 dBm

Rx Sensitivity: -110 dBm at 10 Kbps
 -101 dBm at 200 Kbps

Power Specifications

Battery: Long Life Lithium batteries
 5+ years lifetime

Dimensions

POD (Dia x H): 83 x 94 mm
 POD Weight: 500g

PAD (W x D x H): 332.6 x 107 x 40 mm
 PAD Weight: 500g

Environmental

Operation Temp.: -30°C to +85°C
 Storage Temp.: -40°C to +120°C
 Humidity: 10% ~ 95% (non-condensing)
 Ingress Protection: IP68

Partnumbers

LYNX-sensorMAG-DM-101 =
 LYNX Magnetic Sensor POD 900MHz DM, incl batteries.

LYNX-sensorMAG-SF-102 =
 LYNX Magnetic Sensor PAD 900MHz DM, incl batteries.

*900MHz Options for NZ and APAC available - please contact us.

Notes:

1. Specifications are subject to change without notice.
2. Supported frequency bands are dependent on regional hardware variants.
3. Sigfox performance will be degraded if operating in higher ambient temp's. Operating Temps are determined by RF modules selected for region.