LANTERN TAG

The Lantern Tag is a small, mesh networking radio device used in personnel and asset location applications. Each tag transmits a unique ID that is assigned to a specific person or asset. Developed and manufactured in Singapore, the Lantern Tag is an integral component of the Lantern Positioning System. The tags receive messages from the network of HarshPro™ or HazPro™ Links around the site and send radio information back to the server through the mesh network, where it is processed with a proprietary algorithm.

The Lantern Tag is designed to work reliably in rugged environments featuring an IP66 rated enclosure that can withstand harsh conditions, intrinsically safe electronics for safe operation in hazardous areas, and a wide operating temperature range. Lantern Tags are ideal for distributed and remote sites, with battery power that can last up to three months continuously without being recharged. The tags can also be remotely managed, monitored and configured via over-the-air firmware updates without the need for skilled personnel to be on site.

The Lantern Tag is a wearable device designed to withstand harsh industrial conditions

Front   Back

LANTERN TAG SPECIFICATIONS[1]

Size:	78mm(L) x 44.1mm(W) x 18.5mm(H)
Weight:	70 grams
Enclosure material:	ESD, Impact, and UV resistant polymer

Environmental

Charging temperature:	0C to +40C
Operating temperature:	-20C to +60C
Storage temperature:	-20C to +60C
Humidity:	0-100% RH

Battery

Battery:	Lithium Polymer (LiPo)
Battery life:	3 months[2] (Tx power: 3 dBm, Active tracking)
Charging method[3]:	Wireless charging

[1] Specifications listed here may be subject to change

[2] Battery life dependent on multiple factors: tracking method, adjustable polling rate, & Tx power

[3] Charging must be done in safe area

Radio

Frequency:	2.4Ghz ISM
Transmit power:	Up to 16 dBm
Tag to Link Range:	Up to 90 meters (unobstructed line of sight)
Antenna:	Internal
Encryption:	AES128

Positioning

Active position updates:	Yes
Passive position updates:	Yes
Programmable update rate:	Yes
Firmware over the air updates:	Yes

Regulatory[4]

Hazardous area protection method:	Intrinsic safety (Ex 'ia')
Equipment protection level:	Ga (zone 0), Da (Zone 20)
Hazardous area certifications:	Ex ia IIC T4 Ga Ex ia IIIC T135 Da
Country type approvals:	CE, RoHS3
Ingress protection:	IP66

[4] *Equipment pending certifications*