



RFID Labels for Tracking Metal Goods

Description

Compliant with EPCglobal Class 1, Generation 2 and ISO 18000-6C, the PowerM RFID tag is designed specifically to reliably track metal assets at distances of up to 40 meters. With a five year lifetime, PowerM is ideal for tracking the following metal goods, among others:

- ULDs
- Roll-cages
- Reusable pallet containers
- IT infrastructure
- Steel slabs and coils
- Automotive parts
- Aerospace products
- Shipping containers

Superb reliability, ruggedized tag

The PowerM tag provides superior performance due to the battery on board the tag. This power source obviates the need to harvest energy from the RF reader, which causes passive RFID labels to provide poor performance when attached to metals.

PowerM is the ideal solution for companies searching for a way to affordably track their metal goods. For the first time, these companies have an RFID option that combines high read ranges with high reliability and affordability.

Features	Benefits
Gen. 2 compliance	Supported by Gen. 2 infrastructure and off-the-shelf hardware and software
Integrated power source	Eliminating the need to collect energy from the reader leads to improved backscattering and near 100% read reliability
UHF RFID	Operates in 860-960 MHz spectrum, preferred by logistics operations
Long lifetime	PowerM tags have a five year lifetime, making them ideal for tracking shipping containers, ULDs, and roll-cages
Ruggedized	Ruggedized tags withstand the rigors of the supply chain and carry an IP67 rating to cope with environmental conditions
Designed for challenging environments	Ideal for metal items such as slabs, coils, IT infrastructure, roll containers, etc.

PowerM™ Specifications

Label name	PowerM
Application	Tracking goods made of or containing metals
Dimensions	150 x 69 x 8.6 mm
Operating frequency	PowerM-W604 (860-960 MHz)
Protocol	EPCglobal Class 1, Gen 2 ISO 18000-6C
Memory	96-bit EPC memory 720-bit on-chip user memory 64-bit tag unique identifier
Antenna	Planar printed antenna
Life expectancy	5 years (at room temperature)
Environmental	Operating temperature: -20° C to +60° C Humidity: 5%-95% non-condensing
Environmental rating	IP67



About DilinxRFID

With the exclusive partnership with PowerID and Power Paper, DilinxRFID incorporates the world-leading Battery-Assisted Passive ("BAP") and Printed Battery Passive ("PAP") technologies into a new generation of RFID tags. Our target applications include: Personnel Tracking, Container Tracking, Cold Chain for food and medicines, and general logistics in challenging environments.

For more information, visit www.DilinxRFID.com



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