

## Product Data Sheet



### Eureka® RMT 148 - UHF RFID Rugged Metal Tag

#### Eureka® RMT 148

The Eureka® RMT148 is a UHF RFID tag with a long dipole antenna, performs well on metal and non metal items. The Eureka® RMT148 is a durable tag that can be applied to the harshest environments including high and low temperatures, mechanical shock and chemical stress.

The Eureka® RMT148 is ideal for tracking metallic & non metallic containers and pallets, vehicles & trucks, trains, construction and plant.

The Eureka® RMT148 can be securely fixed to metal parts using adhesive tape, screws, epoxy or a fixing bracket.

Additional services are available including chip programming, laser marking and printed labels.

#### Applications Include:

- Tracking Containers & Pallets
- Tracking Plant Equipment
- Tracking Trolleys & Crates

#### Tag

RF Frequency	UHF (EU)
Protocol	EPC Class 1 Gen 2
Chip Spec	Alien Higgs 3
Memory EPC	96 bits (up to 480)
User	512 bits
Unique TID	64 bits
Password	32 bits
Kill	32 bits
Total	800 bits

#### Read - Fixed Reader\* (2 W ERP)

On Metal	Upto 2.2m
Off Metal	Upto 7.0m

#### Read - Handheld Reader (500mW ERP)

On Metal	Upto 0.5m
Off Metal	Upto 1.3m

#### Physical

Dimensions Size	148mm x 18.2mm x 3.2mm
Hole Diameter	5.5mm
Form Factor	On Metal Tag (FR4)

#### Environmental

Temperature	-45°C to 200°C
IP Classification (Ingression)	IP68
Humidity	85°C/95% RH
Thermal Cycling	Between -45°C & 85°C
High Temperature Oil	@200°C (6 Hours)

#### Services

Labels	Waterproof Polysynthetic 4 Colours 1D or 2D Barcode
Laser Marking	1D or 2D Barcode
Chip Programming	HEXA or ASCII Code

\* Reader 2W ERP, Tag mounted on metal sheet 22cm x14cm, Antenna circular polarized 3dB Axial Ratio @ +/- 30 degree

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