

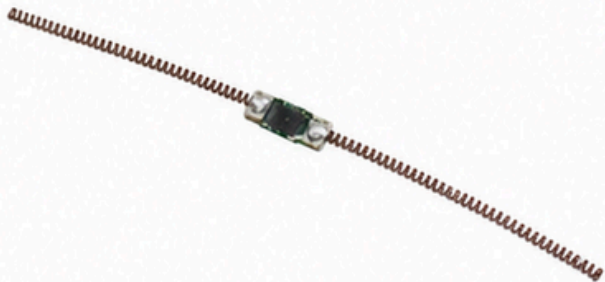
H3 (ALIEN) UHF SPRING TYRE TAG

84 × 1 MM

Flexible. Embedded. Lifecycle-Ready.

Built for intelligent tyre traceability.

The H3 Spring Tyre Tag is a passive UHF RFID transponder designed for embedding inside tyres during manufacturing or retreading. Its flexible spring-wire construction moves with the tyre while supporting identification and tracking throughout the tyre's operational life.






 GLOBAL UHF


 ALIEN HIGGS-3


 FLEXIBLE SPRING


 EMBEDDED DESIGN


 UP TO 2.4 M RANGE

KEY FEATURES

- ✓ UHF 860–960 MHz global frequency
 - ✓ Alien Higgs-3 chipset
 - ✓ ISO 18000-6C / EPC Class 1 Gen2
 - ✓ 96-bit EPC memory
 - ✓ 512-bit user memory
 - ✓ Flexible steel-wire construction
 - ✓ Embedded during tyre manufacturing or retreading
 - ✓ Designed for tyre lifecycle tracking
 - ✓ 100,000 write cycles
 - ✓ Survives tyre-curing temperatures up to +200°C

SPECIFICATIONS

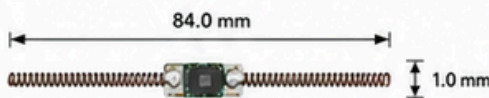
Product Name	H3 (Alien) Spring Tyre Tag
Model / SKU	TyreSpring
Frequency	860–960 MHz
Protocol	ISO 18000-6C / EPC Class 1 Gen2
Chip	Alien Higgs-3
Memory	EPC 96 bits, User 512 bits, TID 96 bits
Reserved Memory	32-bit access + 32-bit kill
Write Endurance	100,000 cycles
Data Retention	More than 10 years
Material	Steel spring wire
Dimensions	84 × 1 mm
Approx. Weight	0.2 g
Read Range	Up to 2.4 m with fixed reader
Installation	Embedded inside tyre
Operating Temperature	–40°C to +85°C
Survival Temperature	Up to +200°C
Applicable Product	Tyres
Power	Passive / battery-free

*Read range depends on tyre construction, embedding depth, reader, antenna and environment.

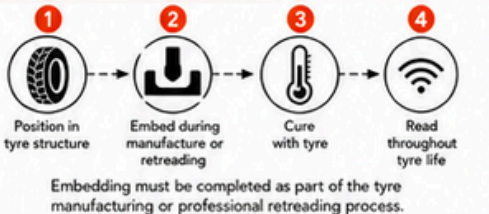
CHIP & MEMORY

CHIPSET	MANUFACTURER	EPC	USER	TID	WRITE CYCLES	DATA RETENTION
Alien Higgs-3	Alien Technology	96 bits	512 bits	96 bits	100,000	>10 years

DIMENSIONS



EMBEDDING PROCESS



APPLICATIONS

- 
TYRE IDENTIFICATION
 Unique tire identification throughout its lifecycle.
- 
INSPECTION HISTORY
 Maintain inspection and service history records.
- 
FITMENT TRACKING
 Track fitment and removal events.
- 
RETRADING RECORDS
 Record retreading events and materials used.
- 
MILEAGE TRACKING
 Support mileage and usage monitoring.
- 
FLEET INVENTORY
 Manage tyre inventory across your fleet.

TYRE MANAGEMENT SOLUTION

- 
 RFDigi UHF RFID Tyre Management
 - 
 Identification and inspection records
 - 
 Fitment and removal history
 - 
 Retreading and mileage records
- No software included.

RECOMMENDED READER ★



Chainway C72 UHF Android 13 Mobile Scanner

- ✓ Up to 10 m free-space read range
- ✓ Android 13 OS
- ✓ 5.2-inch display
- ✓ UHF RFID 860–960 MHz
- ✓ Wi-Fi, Bluetooth, 4G, GPS

*Actual embedded-tag range will be lower and application-dependent.

WHAT'S IN THE BOX



H3 (Alien) Spring Tyre Tags
 Quantity as ordered

- ✓ Bulk packed securely

Reader and tyre installation not included. Available separately.