

R6-P (IMPINJ) UHF TYRE PATCH TAG

95 × 35 × 3 MM

Permanent. Rugged. Tyre-Ready.

Complete tyre identification throughout its service life.

This passive UHF RFID tyre patch is designed for permanent installation inside vehicle tyres during retreading or manufacturing. Its rugged rubber construction withstands the pressure, heat and mechanical stresses encountered throughout normal tyre service.



UHF RFID



R6-P IMPINJ



TYRE-READY



IP68 RATED



UP TO 4 M RANGE

KEY FEATURES

- ✓ UHF 865–868 MHz EU / 902–928 MHz US
- ✓ R6-P (Impinj) chipset
- ✓ EPCglobal Class 1 Gen2 / ISO 18000-6C
- ✓ Up to 4 m read range when installed in tyre
- ✓ Designed for permanent internal tyre installation
- ✓ Rugged rubber construction
- ✓ Resistant to tyre pressure and heat
- ✓ IP68 rated
- ✓ 512-bit user memory
- ✓ 100,000 write cycles

SPECIFICATIONS

Product Name	R6-P UHF Tyre Patch Tag
Chip	R6-P (Impinj)
Frequency	865–868 MHz EU / 902–928 MHz US
Protocol	EPCglobal Class 1 Gen2 / ISO 18000-6C
EPC Memory	128 bits
User Memory	512 bits
TID	96-bit serialized TID
Write Endurance	100,000 cycles
Data Retention	50 years
Material	Rubber
Dimensions	95 × 35 × 3 mm
Weight	Approximately 5.6 g
Applicable Surface	Internal tyre surface
Read Range	Up to 4 m when installed in tyre
Mounting	Permanent adhesive tyre patch installation
Operating Temperature	–40°C to +85°C
Storage Temperature	–40°C to +95°C
IP Rating	IP68
Colour	Black / Grey / Blue product presentation

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

CHIP & MEMORY

Chipset	R6-P (Impinj)
Manufacturer	Impinj
EPC	128 bits
User	512 bits
TID	96-bit serialized
Write cycles	100,000
Data retention	50 years

DIMENSIONS



TYRE INSTALLATION

- 1 Prepare inner tyre surface
- 2 Apply patch using approved tyre-patch process
- 3 Allow correct bonding/curing

Installation should be completed by trained tyre personnel using the appropriate tyre-repair materials and process.

APPLICATIONS

- TYRE IDENTIFICATION
- FLEET MANAGEMENT
- RETREADING RECORDS
- FITMENT HISTORY
- MILEAGE TRACKING
- TYRE INVENTORY

SOLUTION BENEFITS

- ✓ Inspection history
- ✓ Automated inventory
- ✓ Lifecycle traceability
- ✓ Transport, mining and logistics fleets

RECOMMENDED READER ★



Chainway C72 UHF Android 13 Mobile Scanner

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

*Actual tyre-tag range up to 4 m.

WHAT'S IN THE BOX



R6-P UHF Tyre Patch Tag
Quantity as ordered

- ✓ Bulk packed securely

Reader and tyre installation materials not included. Available separately where applicable.