

UNIT CEN UHF COMPACT TAGS

UHF ON-METAL TAG

Ø 5.5 × 2.5 mm

High-performance miniature UHF RFID tag engineered for tracking small metallic assets in demanding industrial environments. Optimized for metal surfaces and ultra-small applications, the Unit Cen tag delivers reliable identification of tools, surgical instruments, molds, and critical equipment where installation space is extremely limited. Its compact footprint, IP68 protection, and industrial-grade durability make it ideal for long-term asset tracking applications.

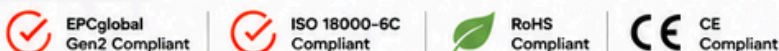
PRODUCT SPECIFICATIONS

Product Type	UHF RFID On-Metal Tag
Model	Unit Cen
Dimensions	Ø 5.5 × 2.5 mm
Material	Ceramic
Colour	Painted Black
Chip Type	Alien Higgs 9
RFID Frequency	865–868 MHz (EU) 902–928 MHz (US)
RFID Standard	EPC Class 1 Gen 2 / ISO18000-6C
Memory	96-Bit EPC (Extensible to 496 Bits) 688-Bit User Memory 64-Bit Unique TID
Read Range (On Metal)	Up to 2 m
Read Range (Off Metal)	Limited
Polarization	Linear
Data Retention	50 Years
Weight	0.29 g
Operating Temperature	-40°C to +85°C
Survivability Temperature	-40°C to +200°C
Operational Humidity	5% to 95% Non-Condensing
IP Rating	IP68
Mounting Methods	VHB Tape, Silicone, Epoxy, Embedded Installation
Application Type	On-Metal Applications

ENVIRONMENTAL & PERFORMANCE

Water Resistance	IP68
Chemical Resistance	Excellent
Shock Resistance	MIL-STD 810-G
Drop Resistance	Multiple 1.2 m Concrete Drops
Operating Temperature	-40°C to +85°C
Survivability Temperature	-40°C to +200°C
Metal Surface Compatibility	Optimized for Metal Assets
Operational Humidity	5% to 95% Non-Condensing

COMPLIANCE



SHORT RANGE
READING



ULTRA COMPACT
DESIGN



IP68
PROTECTION



ON-METAL
PERFORMANCE

KEY FEATURES

- ✓ Ultra-compact design for space-constrained assets
- ✓ Optimized RF performance for slim metal tools
- ✓ Read range up to 2 meters on metal
- ✓ Rugged industrial-grade construction
- ✓ IP68 environmental protection
- ✓ Shock and vibration resistant (MIL-STD 810-G)
- ✓ High-temperature survivability up to 200°C
- ✓ Resistant to salt water, oil, gasoline, bleach and cleaning chemicals
- ✓ Ideal for permanent identification of small metallic assets

TYPICAL APPLICATIONS



TOOL TRACKING

- Hand tools
- Power tools
- Calibration equipment
- MRO asset management



HEALTHCARE

- Surgical instrument tracking
- Medical equipment
- Asset visibility
- Sterilization workflow management



FIRE EQUIPMENT

- Fire extinguisher tracking
- Compliance inspections
- Maintenance scheduling
- Equipment lifecycle management



MANUFACTURING

- Mold management
- Production tooling
- Work-in-progress tracking
- Process monitoring



DEFENCE & SECURITY

- Weapon management
- Equipment accountability
- Asset auditing
- Secure inventory management



UTILITIES

- Inspection equipment
- Field service tools
- Infrastructure maintenance
- Critical asset identification

RECOMMENDED READER

CHAINWAY C72

5.2" UHF ANDROID 13 MOBILE SCANNER

High-performance UHF RFID mobile computer with Android 13, powerful octa-core processor and long-range reading capability. Ideal for asset tracking, tool management, industrial operations and field applications.



UHF RFID
(Up to 20m*)



Android 13
OS



5.2" HD
Touch Screen



IP65
Rugged Design



Long-lasting
Battery



*Read range is dependent on tag, environment and reader power.

RECOMMENDED STORAGE



- Store in cool, dry conditions
- Avoid direct sunlight exposure
- Recommended humidity: 40%–60% RH
- Keep sealed in original packaging until use

