UHF RFID TAG · ANTI-METAL

M7020

PCB Anti-Metal Tag · IP68



The **M7020** is a rigid **FR4 PCB UHF RFID tag** made for **metal surfaces**. It uses an NXP UCODE 8 chip on the **865–868 MHz** EU band, supports EPC Gen2 (ISO 18000-6C) and reads at about **6 m** with a 1 W handheld reader.

At 70 × 20 × 3.6 mm and about 11 g, it is IP68-sealed and rated −20 °C to +80 °C. Fix it with adhesive or screws. It comes in black, and other colours can be made to order.

~6 m	IP68	UCODE 8	10 years
READ RANGE	SEALING LEVEL	NXP CHIP	DATA RETENTION

KEY FEATURES

Built for metal

Rigid FR4 PCB construction for metal surfaces, 70 × 20 × 3.6 mm and about 11 g.

IP68 and wide temperature range

Sealed to IP68; operates from −20 °C to +80 °C and withstands storage from −30 °C to +120 °C.

NXP UCODE 8 chip

128-bit EPC and 96-bit TID memory, 100,000-time IC life and 10-year data retention.

Simple installation

Fix it with adhesive or screws. Black as standard, other colours can be customised.

TECHNICAL SPECIFICATIONS

Full Datasheet

ELECTRICAL PARAMETERS

Air interface	EPCglobal Class 1 Gen2 · ISO 18000-6C
Frequency	865–868 MHz (EU standard)
Read range	About 6 m (US standard, handheld 1 W)
Application surface	Metal

MECHANICAL PARAMETERS

Material	FR4 (PCB)
Dimensions	70 × 20 mm
Thickness	3.6 mm
Weight	About 11 g per piece
Colour	Black (can be customised)
Installation	Adhesive, screws

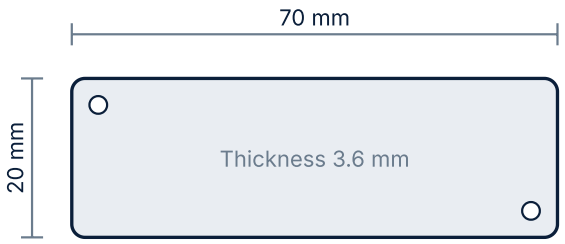
CHIP PARAMETERS

IC type	NXP UCODE 8
Memory	EPC 128 bits · TID 96 bits · no user memory
IC life	100,000 times
Data retention	10 years

ENVIRONMENT

Operating temp.	−20 °C to +80 °C
Storage temp.	−30 °C to +120 °C
Sealing level	IP68
Certification	RoHS

PRODUCT SIZE



APPLICATION AREAS

- Tagging metal surfaces and equipment
- Fixed installation with adhesive or screws
- Wet and dusty environments (IP68)

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End-to-end deployment: consulting, hardware, software, install & support.

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