



NXP® UCODE® 8 High Protecting On-Metal UHF RFID Tag



SKU:	RS-U8-OMPLS-12830
Chip Type:	NXP® UCODE® 8
Frequency:	UHF 865-868 MHz(EU) UHF 902-928 MHz(US)
EPC Memory:	128 bits
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Read Range: (2W ERP)	FCC(On metal): 25 m; ETSI(On metal): 30 m
Read Range: (Handheld Reader)	FCC(On metal): 20 m; ETSI(On metal): 20 m
Industry:	Automotive, Aviation, Industrial Applications, Logistics
Applications:	Metal Asset Tracking, Equipment Management, Warehouse Shelving, container tracking, oil and gas, production lines, Asset Tracking, Inventory, Warehouse

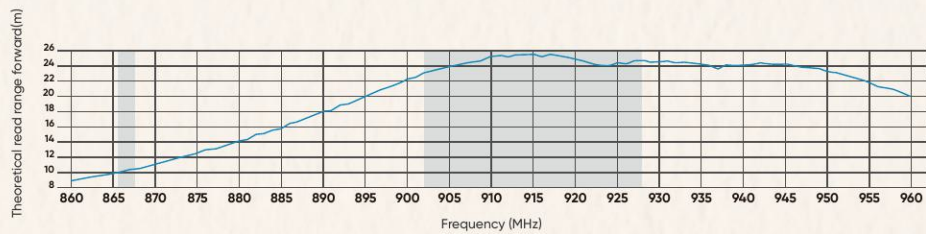
This rugged, high-protection on-metal RFID hard tag is engineered for dependable metallic asset identification in outdoor and harsh industrial environments. Built with a durable, low-profile housing and secure mounting points, it stays firmly attached and performs reliably on demanding metal surfaces.

Integrated with the NXP® UCODE® 8 chip, it delivers strong read sensitivity along with fast and stable inventory performance when mounted directly on metal, supporting long read ranges and high tag-density scenarios. It is ideal for heavy-industry asset management, metal equipment tracking, oil and gas, mining, automated production lines, warehouse racking, and container tracking.

Reading Performance

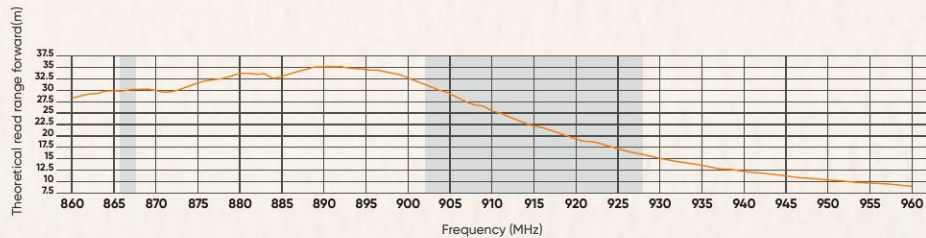
On metal FCC

Reading Performance @FCC Standard



Reading Performance @ETSI Standard

On metal ETSI



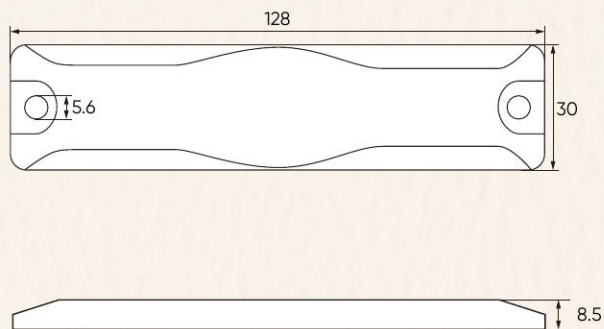
Physical Information

Material	Industrial-grade plastic
Size	128×30×8.5 mm (Hole: Ø5.6 mm ×2)
Weight	15.5 g
Color	Light Blue
Operating Environment	-40°C~+85°C, 98% RH, non-condensing
Storage Environment	+18°C~+28°C, 40%~60% RH, non-condensing
Mounting Method	3M adhesive, Screw, Magnet, Cable
Surface	Metal
IP Rating	IP68
Customization Options	Print logo, barcode/QR code, serial number, encoding, design, etc.

Technical Information

Operating Frequency	865-868 MHz(EU)/902-928 MHz(US)
Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
Chip Type	NXP® UCODE® 8
EPC Memory	128 bits
User Memory	0 bits
TID Memory	96 bits
Read Range(2W ERP)	FCC(On metal): 25 m; ETSI(On metal): 30 m
Read Range(Handheld Reader)	FCC(On metal): 20 m; ETSI(On metal): 20 m
Security Features	32-bit Access & Kill Password

Label Dimensions
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment. ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage. ● **Product Updates and Revisions:** rfidbridge.com may change products, specs, or services at any time without prior notice. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change rfidbridge.com is not liable for use-related issues or outcomes.