



NXP® UCODE® 8 PCB UHF RFID On-Metal Tag

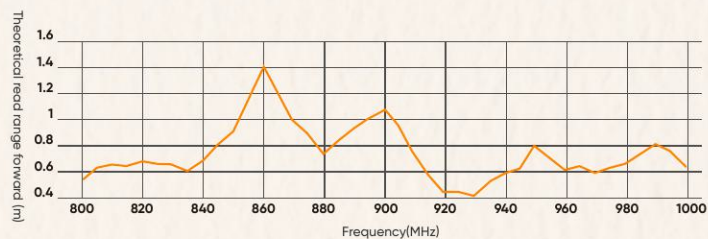
SKU:	RS-U8-PCB-D5T2
Chip Type:	NXP® UCODE® 8
Frequency Band:	(EU)865–868 MHz
EPC Memory:	128 bits
User Memory:	0 bits
Max. Read Range:	0.9 m on metal
IP Rating:	IP68
Protocol:	ISO/IEC 18000–63 EPCglobal Gen 2v2
Industry:	Manufacturing, Industrial Automation, Logistics
Applications:	Asset Tracking, Equipment Tracking, Warehouse Management, Logistic Management

Made from durable, tear-resistant, lightweight, moisture-proof, and heat-resistant FR4 PCB, this NXP® UCODE® 8 UHF RFID on-metal tag is ideal for use on metal surfaces in challenging environments, offering a read range of up to 1 meter when attached to metal. Its compact design and flexible mounting options—either embedded or adhesive—make installation easy on various metal surfaces.

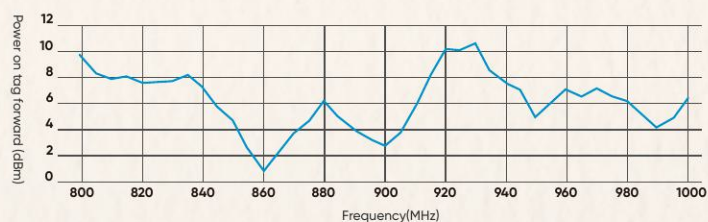
With an IP68 rating for dust and water resistance, it is perfectly suited for outdoor use. This UHF RFID on-metal tag is specifically designed for asset tracking, warehouse management, logistics, supply chain management, and equipment tracking in demanding industrial environments.

Reading Performance

Reading range under different frequency



Tag power under different frequency



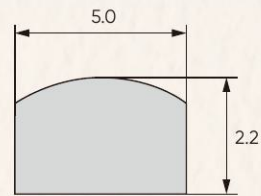
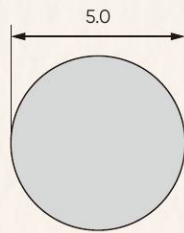
Physical Information

Material	FR4(PCB)
Size	Diameter: 5 mm; Thickness: ≤ 2.2 mm with adhesive
Tag Color	Black(red, blue, green, white)
Tag Weight	0.5 g
Operating Environment	-40°C~+100°C
Storage Environment	+18°C~+28°C
Mounting Method	Embed, adhesive
Surface	Metal
IP Rating	IP68

Technical Information

Operating Frequency	(EU)865-868 MHz
Protocol	ISO/IEC 18000-63, EPCglobal Gen 2v2
Read Range	Up to 0.9 m on-metal(Fix reader) Up to 0.55 m on-metal(Handheld reader)
Chip Type	NXP® UCODE® 8
EPC Memory	96/480 bits
User Memory	128 bits
TID Memory	96 bits
Security Features	(Perma)LOCK™, kill command, autocorrect memory protection, authenticity certification

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.