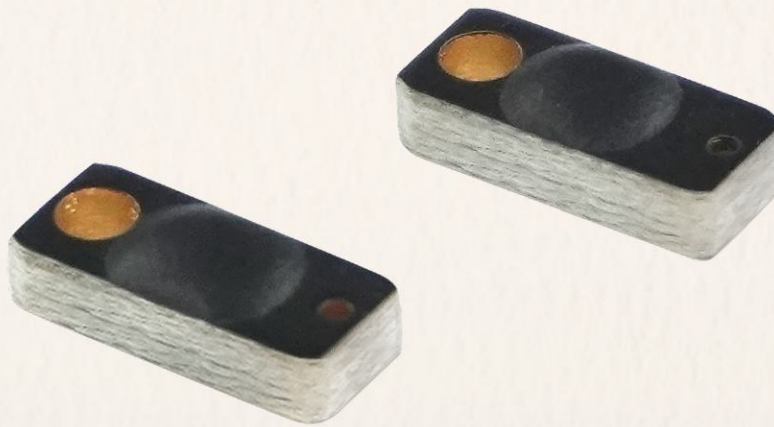




NXP® UCODE® 8 On-Metal UHF Small RFID PCB Tag

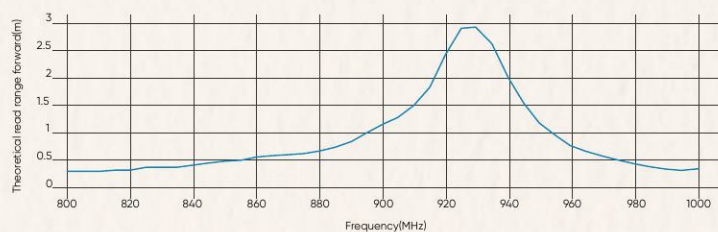
SKU:	RS-U8-OMFR4-1004
Chip Type:	NXP® UCODE® 8
Frequency:	UHF 902-928MHz (US) , 865-868MHz (EU)
EPC Memory:	128 bits
Read Range (Fixed Reader):	1.05 m on metal (FCC), 1.45 m on metal (ETSI)
Read Range (Handheld Reader):	0.7 m on metal (FCC), 0.8 m on metal (ETSI)
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Industry:	Industrial Applications, Manufacturing, Logistics, Supply Chain, Construction, Energy, Healthcare, IT, Aviation
Applications:	Metal, Vehicle Tracking, Asset Tracking, Industrial Use

This tag is fully compatible with ISO/IEC 18000-63 and EPCglobal Gen2v2 protocols, ensuring reliable UHF RFID performance across standard readers and systems.

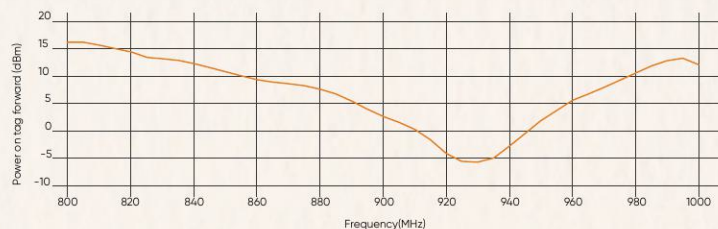
It can be easily installed using screws or adhesive. With an ultra-compact footprint of just 10x4 mm, it's ideal for precision instruments and equipment, as well as for tracking and managing metal assets such as metal components.

Reading Performance

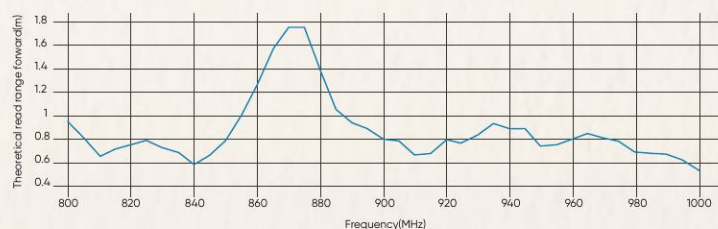
Reading Range Under Different Frequency(US)



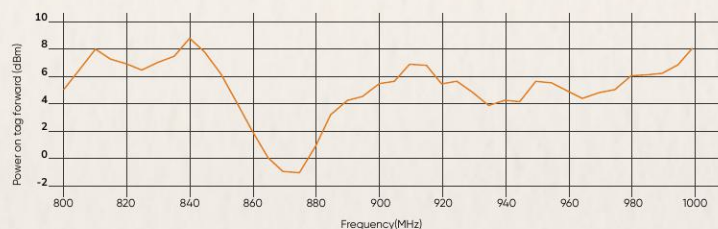
Tag Power Under Different Frequency(US)



Reading Range Under Different Frequency(EU)



Tag Power Under Different Frequency(EU)

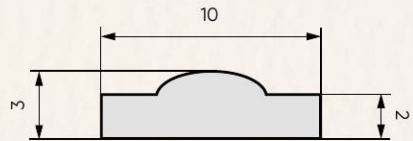
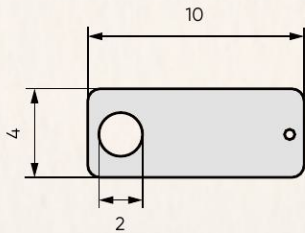


Physical Information

Material	PCB
Size	10×4 mm (Hole Diameter: Ø 2 mm)
Tag Thickness	2 mm without IC bump, 3 mm with IC bump
Weight	0.5 g
Color	Black, Red, Blue, Green, White
Hermal Endurance (Non-operating)	-40°C~+150°C, 98% Non-condensing
Operating Environment	-40°C~+100°C, 98% Non-condensing
Storage Environment	+18°C~+28°C, 40%~60% RH
Mounting Method	Adhesive, Screw
Surface	Metal
Handling Precautions	1.Do not bend and crushed. 2.Keep away from water and collision.

Technical Information	Operating Frequency	902-928MHz (US), 865-868MHz (EU)
	Communication Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
	Read Range (Fixed Reader)	1.05 m on metal (FCC), 1.45 m on metal (ETSI)
	Read Range (Handheld Reader)	0.7 m on metal (FCC), 0.8 m on metal (ETSI)
	Chip Type	NXP® UCODE® 8
	EPC Memory	128 bits
	TID Memory	96 bits
	Security Features	Support Memory Safeguard

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.