RFIDBridge

NXP® UCODE® DNA Flexible On-Metal UHF RFID Label

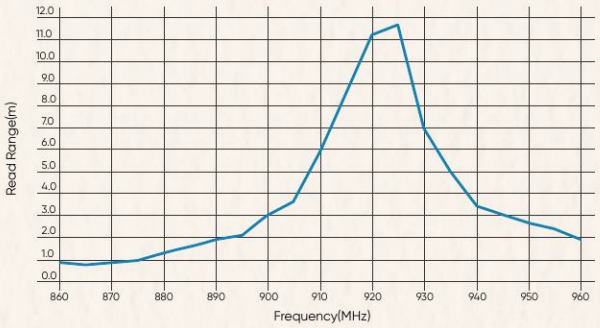
SKU:	RS-UDNA-OMPET-7030
Chip Type:	NXP® UCODE® DNA
Frequency:	UHF 902-928 MHz (US)
EPC Memory:	224 bits
User Memory:	3072 bits
TID Memory:	96 bits
Serial Number:	48 bits
Read Range:	Up to 11.5 m
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Industry:	Automotive, Transportations, Industiral
Applications:	Metal, Vehicle Tracking, Asset Tracking, Industrial Use

The NXP® UCODE® DNA Flexible On-Metal UHF RFID Label is a next-generation secure identification solution engineered for dependable performance on metal surfaces. Powered by the innovative UCODE® DNA chip, it combines long-range UHF readability with built-in cryptographic authentication to enable trusted item identification, brand protection, and digital product passport applications. Designed to perform in RF-challenging environments, the label delivers high sensitivity and consistent read accuracy when applied directly to metal assets, making it well suited for industrial equipment, electronics, tools, and other high-value items.

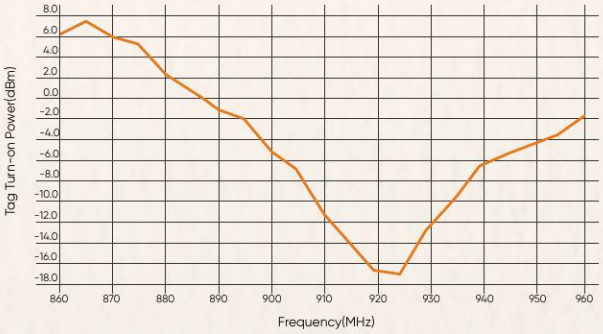
Featuring a flexible, on-metal-optimized structure, this label complies with ISO/IEC 18000-63 and EPCglobal Gen2v2 standards and integrates easily into existing UHF RFID systems. Its chip-level security architecture helps prevent cloning and unauthorized duplication, supporting anti-counterfeiting, traceability, and lifecycle management initiatives. By combining reliable on-metal performance with advanced digital security, the UCODE® DNA Flexible On-Metal RFID Label provides a future-proof solution for secure asset tracking and intelligent supply chain transformation.

Reading Performance

Tag Power Under Different Frequency



Reading Range Under Different Frequency



Physical Information

Material	PET
Label Size	70×30 mm
Operating Environment	-20°C~+50°C, 20%~80% RH
Storage Environment	+18°C~+28°C, 40%~60% RH
Mounting Method	Stick
Surface	Metal
Handling Precautions	1.Keep away from water. 2.Labels with black-dot marks are bad ones, do not use.

Technical Information

Operating Frequency	902-928 MHz (US)
Communication Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
Chip Type	NXP® UCODE® DNA
EPC Memory	224 bits
User Memory	3072 bits
TID Memory	96 bits
Serial Number	48 bits
Read Range	Up to 11.5 m
Encoding Speed	32 bits per 1.5 ms
Reserved Memory	32 bits Access & Kill Password
Security Features	128 bit AES unique crypto key

Packing Information		
	Packing Format	Packed in roll, vacuumed packing in ESD bag
	Roll OD	Max. 220 mm
	Core ID	3 inch(76.20 ± 0.50 mm)
	Packing Quantity	1000 Pcs/roll

To learn more about our RFID solutions or request a customized product or integration, please visit our website at https://www.rfidbridge.com or reach out to our sales team directly at sales@rfidbridge.com.