



NXP UCODE® 8 On-Metal & On-Liquid RFID Label

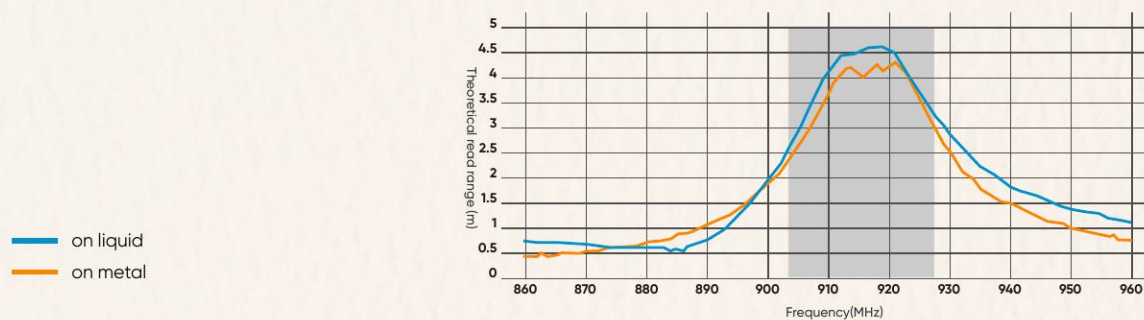
SKU:	RS-U8-OMPET-6406
Chip Type:	NXP UCODE® 8
Frequency:	UHF 860-960 MHz
EPC Memory:	128 bits
Read Range:	4m on-metal, 4.5m on-liquid 3.5m on-metal, 6.5m on-liquid
Protocol:	ISO IEC 18000-63, EPC Global Gen2v2
Industry:	Apparel and Fashion, Automotive, Aviation, Healthcare, Logistics, Industrial Applications, Retail, Laboratory
Applications:	Asset Tracking, Electronics, Gaming and Toys, Inventory, Metal and Liquids, Warehouse

Designed for both metal and liquid surfaces, the label with the NXP UCODE® 8 chip adheres securely even to irregular and uneven areas. The UCODE® 8 chip offers exceptional sensitivity, enhanced memory capacity, and improved energy efficiency, making it suitable for challenging environments where traditional labels may struggle.

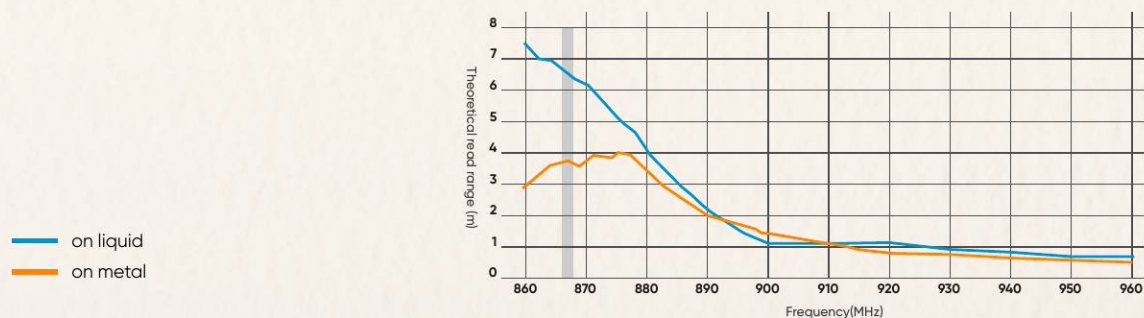
The label also provides easy customization for printing and encoding, ensuring long-lasting, high-performance tracking on both metal and liquid surfaces, delivering reliability and efficiency across a wide range of applications.

Reading performance

Reading Range Under Different Frequency



Tag Power Under Different Frequency



Physical Information

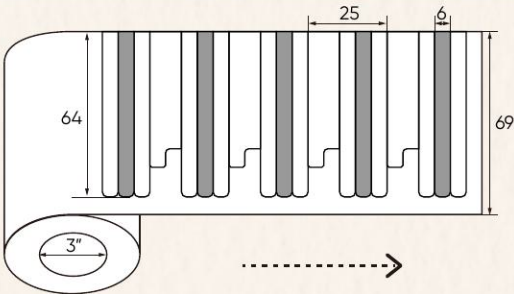
Material	PET & Aluminum Foil & Foam
Size	64×6×1 mm
Operating Environment	-40°C ~ +70°C, 20% ~ 90% RH
Storage Environment	18°C ~ 28°C, 40% ~ 60% RH
Mounting Method	Stick
Surface	Paper Carton, Plastic, Wood ,Metal
IP Rating	IP68
Handling Precautions	1. Do not bend. 2. Keep away from water and collision. 3. Inlays with black-dot marks are bad ones, do not use.

Technical Information

Operating Frequency	UHF 860-960 MHz
Communication Protocol	ISO IEC 18000-63, EPC Global Gen2v2
Read Range	4m On-Metal, 4.5m Off-Metal (2W ERP FCC) 3.5m On-Metal, 6.5m Off-Metal (2W ERP ETSI)
Chip Type	NXP UCODE® 8
EPC Memory	128 bits
TID Memory	96 bits
Authentication	Support Memory Safeguard

Packing Information	Packing Format	Packed in roll, vacuummed packing in ESD bag.
	Roll OD	Max. 152 mm
	Core ID	3 inch/76.2 ± 0.50mm
	Packing Quantity	100 Pcs/roll, per roll 0.5 kg

Label Dimensions
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.

● **Product Updates and Revisions:** rfidbridge.com may change products, specs, or services at any time without prior notice.

● **Legal Notice:** Information is believed accurate but may change rfidbridge.com s not liable for use-related issues or outcomes.

● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.

● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications.