RFIDBridge

NXP® UCODE® 8 Flexible & Printable UHF On-Metal RFID Label

SKU:	RS-U8-OMPET-2010
Chip Type:	NXP® UCODE® 8
Frequency:	UHF 902-928 MHz(US)
EPC Memory:	128 bits
TID Memory:	96 bits
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Industry:	Retail, Logistics, Automotive, Laboratory, Aviation
Applications:	Inventory, Asset Tracking, Warehouse, Vehicle Tracking, Metal

The NXP® UCODE® 8 Flexible & Printable UHF On-Metal RFID Label (20×10 mm) is engineered to deliver consistent, high-efficiency RFID performance in environments where metal surfaces typically interfere with signal reliability. Featuring the advanced UCODE® 8 chip, it offers fast read/write speeds, high sensitivity, and dependable long-range readability, ensuring accurate identification for metal assets across industrial and commercial operations. Its flexible design allows the label to conform smoothly to curved or uneven surfaces without compromising performance.

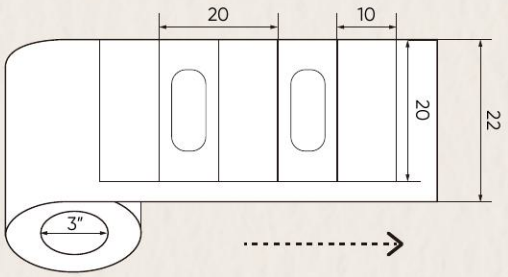
Designed for operational efficiency, this on-metal UHF label includes a printable top layer compatible with standard RFID printers, enabling customization with barcodes, serial numbers, or branding. Fully compliant with ISO/IEC 18000-63 and EPCglobal Gen2v2 standards, it integrates easily into existing RFID infrastructures. With its durable construction, strong adhesion, and optimized on-metal performance, this label is a practical and scalable solution for asset tracking, warehouse management, and supply chain visibility.

Physical Information	Material	PET
	Label Size	20×10 mm
	Support Printer	SATO CL4NX, Zebra ZT410 Silverline, Postek TX3r, etc.
	IP Code	IP68, test for 5 hours at 1m deep water
	Customizable Content	Printing Logo, Barcodes, Serial Number, Encoding, Designing, etc
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Mounting Method	Stick
	Surface	Paper Carton, Plastic, Wood, 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
	Read Range (Fixed Reader)	FCC: 1.5 m, on metal
	Read Range (Handheld Reader)	FCC: 0.4 m, on metal
	Chip Type	NXP® UCODE® 8
	EPC Memory	128 bits
	TID Memory	96 bits
	Unique Serial Number	48 bits
	Memory Safeguard	Support
	Security Features	32 bits Access & Kill Password

Packing Information	Packing Format	Packed in roll, vacuumed packing in ESD bag.
	Roll OD	Max. 220 mm
	Core ID	3 inch(76.2 ± 0.50 mm)
	Packing Quantity	1000/roll, per roll 1 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. ● **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 s not liable for use-related issues or outcomes.

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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.