



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



SKU:	RS-U8-OMPET-6535
Chip Type:	NXP® UCODE® 8
Frequency:	UHF 865-868 MHz(EU) UHF 902-928 MHz(US)
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
EPC Memory:	128 bits
TID Memory:	96 bits
IP Rating:	IP68
Read Range:	ETSI: 13 m on metal, FCC: 15 m on metal (Fixed Reader) ETSI: 6 m on metal, FCC: 8 m on metal (Handheld Reader)
Industry:	Logistics, Automotive, Aviation
Applications:	Inventory, Asset Tracking, Warehouse, Electronics, Metal, Vehicle Tracking



The 65×35 mm NXP® UCODE® 8 Flexible & Printable UHF On-Metal RFID Label is a high-performance tagging solution optimized for metallic assets and industrial surfaces. Utilizing the latest UCODE® 8 chip, the label delivers excellent read accuracy, fast encoding speed, and extended read distances, ensuring dependable identification even in RF-challenging environments. Its flexible inlay design enables smooth application on flat, curved, or textured metal surfaces, making it suitable for asset tracking, tool management, and warehouse logistics.

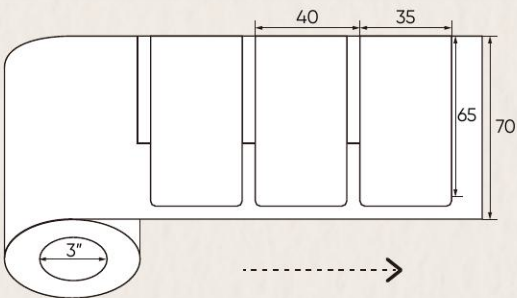
Featuring a printable PET top layer, this RFID label supports full customization, including logos, serial numbers, and barcodes. The strong adhesive ensures stable bonding on metal substrates, while the robust construction provides resistance to heat, abrasion, and outdoor conditions. Compliant with ISO/IEC 18000-63 and EPCglobal Gen2v2 this UHF on-metal label combines durability and high RF efficiency, offering a reliable method for long-term identification and streamlined operations.

Physical Information	Material	PET & Aluminum Foil & Foam
	Label Size(L×W×T)	65×35×1.25 mm
	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
	Support Printer	SATO CL4NX, Zebra ZT410 Silverline, Postek TX3r, etc.
	Customization	Printing LOGO, Barcode, Serial number, Encoding, Designing, etc.
	IP Rating	IP68, test for 5 hours at 1 m deep water
	Handling Precautions	1. Do not bend. 2. Keep away from water and collision. 3. Labels with black-dot marks are bad ones, do not use.

Technical Information	Operating Frequency	865-868 MHz(EU), 902-928 MHz(US)
	Communication Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
	Chip Type	NXP® UCODE® 8
	EPC Memory	128 bits
	TID Memory	96 bits
	Unique Serial Number	48 bits
	Read Range(Fixed Reader)	13 m on metal (ETSI), 15 m on metal (FCC)
	Read Range(Handheld Reader)	6 m on metal (ETSI), 8 m on metal (FCC)
	Security Features	32 bits Access & Kill Password

Packing Information	Packing Format	Packed in roll, vacuumed packing in ESD bag
	Core ID	3 inch(76.2 ± 0.50 mm)
	Packing Quantity	500 pcs/roll, weight per roll 0.775 kg
	Packing Weight	4 rolls/carton, G.W.: 3.1 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.
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