



Mini UHF transponders for metal, passive

Robust hard-tags for on-surface and embedded mounting

Very small



For embedding in metal surfaces



Mount on metal

Figures show original size



The tags of the **ID-RTP X2 Mini Series** offer new opportunities for RFID use. Now even metal objects that would not have space to host a conventional UHF tag can be distinguished unambiguously.

The models for being embedded in the metal surface generate an exceptional robust and protected identification. The 6 mm round tag even fits in a screw head. Or use the "long" on-metal version directly on e.g. PCBs. More spare parts can now easily be checked for authenticity and more objects are easily identified for maintenance.

The consistent use of the high performing UHF technology with long read range and multi tag reading from production to logistics and maintenance is now reality, thus saving unnecessary investments. The transponders are compatible with the standard EPC Class1 Gen2 and can be used in any appropriate application.

Your advantages at a glance

Benefit	Feature
Reliable in harsh environments	IP68
Extended application range	Extremely small footprint, temperature resistance

Technical data

Item number	ID-RTP X2-208	ID-RTP X2-207	ID-RTP X2-108	ID-RTP X2-107
Frequency*	866...868 MHz			
Air interface protocol	EPCglobal Class 1, Gen 2 (ISO/IEC 18000-6 C)			
Chip	Alien Higgs 3			
Memory	96 Bit EPC, 512 Bit user memory			
Read range**	Up to 1,5 meter	Up to 2 meter	Up to 1 meter	Up to 1,5 meter
Material	Ceramic			
Protection rating	IP68			
Direct mount on metal	Yes	Yes	Flush embedded in surface	
Mounting	Epoxy			
Operating temperature	-30 °C...+85 °C			
Ambient temperature	-40 °C...+150 °C			
Size (L/W/H) mm	Ø 6 x 2,5	12,3 x 3 x 2,2	Ø 6 x 2,5	12,3 x 3 x 2,2
Weight	0,5 g			
Delivery format	Singulated			
Personalization	Factory-made pre-encoding (optional)			
Typical applications	Asset management, authentication, maintenance, ...			

* Also available for FCC (USA) ** With reader @ 2 W ERP, depending on application and environment