

InLine 120/52 UHF Tag

Robust EPCglobal Class 1 Gen 2 UHF tags for asset tracking and returnable transport applications

- ▶ Designed for outdoor use and strong impact resistance
- ▶ Features read/write capability
- ▶ No line of sight required to read or write data
- ▶ Ideal for metal applications
- ▶ Read range extends to 6 meters



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HID Global's InLine 120/52 UHF Tag features a passive contactless transponder designed to communicate with a reader via radio frequency identification (RFID) technology. With a 6 meter read range, the InLine 120/52 is a viable alternative to active technology.

The secure and reliable plastic housing provides high resistance to aggressive liquids and excellent stability over fluctuating temperatures, protecting the transponder within. Easily mounted on metal, plastic or wood using standard screws, the InLine 120/52 tag's optimum antenna design delivers the greatest size-to-performance ratio, and the housing ensures chemical resistance.

InLine 120/52 is well-suited for all applications in logistics (pallet and container tracking), high-value asset maintenance, repair and overhaul, as well as for high-value asset identification in railroad maintenance applications. Its rugged construction gives it unlimited resistance to water and chemical absorption, such as salt water, oil, 5 percent acetic acid and 5 percent bleach.

Featuring 512 bits user memory and 240 bits EPC number, the tag offers anti-collision functionality, fast data rate communication, a password for data protection and a large read range of up to 6 meters. Additionally, InLine 120/52 is compliant with EPCglobal-certified UHF Gen 2 readers and modules.

Specifications

Base model number	692950 : 865-870 MHz 692951 : 902-928 MHz
Length	120.0 mm ± 2 mm
Thickness	20.0 mm ± 0.5 mm
Width	52.0 mm ± 2 mm
Screw center to center distance	102.5 mm
Fixation hole	5.3 mm
Weight	75 g
Material	EPDM
Color	Black
Chip type	EPC G2XM - 880 bits Read / Write
Operating frequency	692950 : 865-870 MHz 692951 : 902-928 MHz
Water immersion IP68	20°C, 24h, 1m
Salt water	20°C, 24h
Motor oil	20°C, 24h
Acetic Acid 5%	20°C, 24h
Bleach 5%	20°C, 24h
Vibration	IEC 68.2.6 (10g, 10...2000Hz, 3 axis, 2.5h)
Shock	IEC 68.2.29 (40g, 18ms, 6 axis, 2000times)
Impact	IK08 (IEC 62262 - 5J impact shock)
Storage temp.	-40°C to +90°C (1x 1000h)
Operating temp.	40°C to +75°C
Shock/fatigue temp.	-40°C to +90°C (100x 5min with transposition in 20s)
Reading distance	4 to 6 m on metal, air or wood (2W ERP, free space)

IC Features

	Frequency	Data rate (kbits/s)	Unique ID number (UID)	Read/write memory	User memory	Security	Anti-collision	ISO compliance
Ucode G2XM	860-960 MHz	up to 640	up to 240 bits EPC	880 bits	512 bits	32 bits access and kill password	yes	EPC Global Class I Gen2

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