

IN Tag 500 UHF

Robust EPCglobal Class 1 Gen 2 UHF tags for asset tracking and process automation applications

- ▶ Features read/write capability
- ▶ Read range of up to three meters
- ▶ Ideal for metal application (OM version available)
- ▶ Tolerates temperatures up to 140°C



SECURE performance.

HID Global's IN Tag 500 UHF Tag features a passive contactless transponder designed to communicate with a reader via radio frequency identification (RFID) technology.

Providing high resistance to aggressive liquids and excellent temperature resistance, the secure and reliable plastic housing encloses and protects the transponder. Easily mounted on plastic or wood using standard screws, the IN Tag 500 UHF tag's optimum antenna design delivers the greatest size-to-performance ratio. This feature, along with the housing's chemical resistance, ensures the tag's long, useful life. For metal mounting, the specific On Metal (OM) version is designed with an additional plastic holder.

IN Tag 500 is well-suited for all applications in asset tracking and process automation, making it the ideal solution for high-temperature applications up to 140°C. Its rugged construction gives it unlimited resistance to water and chemical absorption, such as salt water, acetone, mineral oil, benzene and ammonia. Durable goods manufacturing is one example of an environment where these tags are specifically used.

Featuring 512 bits user memory and 240 bits EPC number, the IN Tag 500 offers anti-collision functionality, fast data rate communication, password for data protection and a read range of up to 3 meters. Additionally, IN Tag 500 is compliant with EPCglobal-certified UHF Gen 2 readers and modules.

Specifications

Base model number	692185 / 692185-300 (OM version) : 865 - 870 MHz 692186 / 692186-300 (OM version) : 902 - 928 MHz
Diameter	50.0 mm ± 0.5 mm / 55.0 mm ± 0.5 mm (on metal)
Thickness	3.3 mm ± 0.5 mm / 13.0 mm ± 0.5 mm (on metal)
Weight	10 g / 30 g (on metal)
Fixation hole	5.3 mm
Material	PA6 Modified - SOK001
Color	Black
Chip type	EPC G2XM - 880 bits Read / Write
Operating frequency	692185 / 692185-300 (OM version) : 865 - 870 MHz 692186 / 692186-300 (OM version) : 902 - 928 MHz
Water immersion IP68	20°C, 24h, 1m
Salt water	20°C, 24h
Motor oil	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)
Storage temp.	-40°C to +90°C (1x 1000h) / +140°C (1x 100h)
Operating temp.	-40°C to +85°C
Shock/fatigue temp.	-20°C to + 85°C (50x 5min with transposition in 20s)
Reading distance	Up to 3 meters on metal

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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SECURE asset tracking.

hidglobal.com

Corporate North America
15370 Barranca Pkwy
Irvine, CA 92618
U.S.A.
Tel: 1 800 237 7769
Tel: +1 949 732 2000
Fax: +1 949 732 2360

Switzerland SA
Rte Pra-Charbon 27
CH-1614 Granges
Switzerland
Tel: +41 21 908 01 00
Fax: +41 21 908 03 01

Asia Pacific
19/F 625 King's Road
North Point
Island East
Hong Kong
Tel: +852 3160 9800
Fax: +852 3160 4809

Latin America
Circunvalación Ote. #201 B
Despacho 2
Col. Jardines del Moral
Leon 37160, Gto.
Mexico
Tel: +52 477 779 1492
Fax: +52 477 779 1493

Europe, Middle East & Africa
Haverhill Business Park
Phoenix Road
Haverhill, Suffolk
CB9 7AE
England
Tel: +44 1440 714 850
Fax: +44 1440 714 840