

Introduction

RFID tags can be used to track all types of objects in industries like healthcare, retail, and manufacturing, to keep track of assets or inventory. RFID tags can work on HF, UHF frequencies. Choosing right RFID tag depends on the field conditions.

UHF RFID tag is comprised of an antenna and the IC. Antenna – A tag's antenna is unique to that specific type of tag and its work is to receive RF waves, energize the IC, and then backscatter the modulated energy to the RFID antenna. UHF RFID Reader reads this energy to read the tag info and sends it to central server.

Uses

UHF RFID technology is widely used in fields like communication transmission, industrial automation,

commercial automation and identity authentication, while long-range RF products are typically applied to intelligent transportation (ITS).

Features

- Easy to Place
- Unique Device Number
- Tamper Proof
- Readers are placed on vehicles, any asset
- Can be mounted with screws or can be pasted
- Asset/Employee swaps the tag, data with time stamp is sent to Cloud
- The data is decrypted and displayed in analytics soft-ware tools using this analytics software.



Technical Specifications:

S.No.	Parameters	Specification
A General		
1	Reading/Detection range	Up to 15 Mtr
2	Unique TID, Memory Capacity	The tag should support ISO18000-6C protocol standard 2K Bits storage capacity, 1728 Bits (216bytes) writable user area; MR6730B metal supports EPC C1 GEN2 (ISO18000-6C), with 96Bits writable EPC Code area, 512Bits writable user area, and 32Bits password area, EPC 128 bit user 512 bit TID 96 bits.
3	Reading Speed	Software Programmable, Average Reading per 64Bits <6ms
4	Write Cycles, Memory Organization	100,000,47*16
5	EPC Size	96-480 bits
6	Program Time	16 Byte:0.0.40Second
B Communication		
1	Frequency Range	Standard ISM 902~928MHz/ISM 865~868MHz/860-960MHz
2	Protocol	ISO18000-6B,ISO18000-6C(EPC Class1 GEN2)
3	GSM /GPRS Multi slot class/mobile station	Class 12,Class B, Low Power Consumption
4	Operation Mode	Fixed frequency or FHSS Software Programmable
C Operating Temperature		
1	Operation Temperature	-35°C to 85°C
2	Storage Limits	20% to 90% RH
D Strength		
1	Drop Resistance	Yes with ABS, high quality engineering plastic & IP 68
2	Weather	Heat, dust proof, UV resistant & sea water resistant
3	Chemical Resistance	No physical or performance changes in 168 hour Motor oil exposure 168 hour Salt water exposure (salinity 10%) 5 hrs. Sulfuric acid (10 %Ph 2) 1 h Naoh (10 % Ph 14) exposure

E	Physical	
1	Dimensions	92mm×23mm×9.5mm ±2mm
2	Hole Diameter	5.0mm
3	Color**	Blue, Grey
4	Encasement	ABS High quality
5	Weight	14 gm
6	Tags material	Metal material
7	Attachment	Riveting /Screwed /Adhesive Tape /Cable Tie