



RFID TRANSPONDER

Logi TAG

Intelligent solutions
for process automation
and logistics



Overview

Logi TAG is a family of passive contactless transponders that communicate with a reader via radio frequency communication. Logi TAGs are available with different features and memory sizes to meet your specific application requirements.

Logi TAG transponders have been designed for applications which require resistance to **high temperatures, high pressure** and **aggressive chemicals**. Compared to other identification technologies such as barcode, radio frequency identification (RFID) has the following advantages:

- No line of sight required
- Read/Write feature
- Several tags can be read at the same time (anti-collision feature)

Applications

- Logistics in harsh environments
- Laundry & textiles
- Process & factory automation
- Identification of tools, boxes, firearms...



Logi TAG

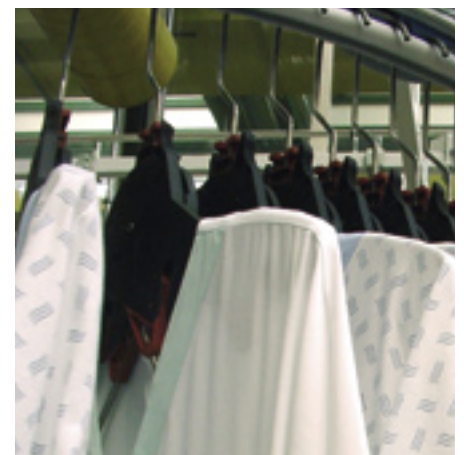
Intelligent solutions for process automation

IC features

	Frequency	Coding Type Read Mode	Data Rate (Kbaud)	Unique ID number (UID)	Read/Write Memory	User Memory	Security	Anticollision	ISO Compliance	Key points
Unique	125KHz	Manchester	2	40 bits			UID & database	no	Defacto Standard	In use since >14 years
Q5	125KHz	Manchester Biphase PSK, FSK, NRZ	1 to 62		264 bits	224 bits	Password mode, Write protection area	Answer On Request Mode	11784/785	Multi-purpose chip
Titan	125KHz	Manchester	2 or 4	2 x 32 bits	1024 bits	928 bits	32 bit password, Read/Write protection area	no		Selectable protection area
Hitag s	125KHz	Manchester	2, 4 or 8	32 bits	2048 bits	1984 bits	24 bit password, 48 bit secret key	yes	anticollision coding ISO 18000-2	256 or 32 bits on request
I-code	13.56MHz	Manchester	26	64 bits	512 bits	416 bits	UID & database	yes		Compatible with most ISO15693 readers
Sedna	13.56MHz	Manchester	26	64 bits	128 bits	56 bits OTP	UID & database	yes	15693	ISO15693 compatible supports ePC Class 1b data coding

Transponder Specifications

	Logi TAG 120	Logi TAG 160
Diameter	12.4 +/- 0.2mm	16 +/- 0.1mm
Thickness	2.0 +0.4/-0mm	3.0 +/- 0.1mm
Weight	0.6g	1.1g
Material	PPS/Epoxy	Epoxy
Operating temperatures	-25 to 85°C	-25 to 85°C
Peak temperature	160°C 35h, 220°C 30sec	160°C 35h, 220°C 30sec
Chemical resistance	HCL, Bleach, Formic acid, Gasoline etc.	HCL, Bleach, Formic acid, Gasoline etc.
Mechanical resistance	500N radial, 800N axial	1000N radial, 1000N axial
Shock & Vibration resistance	IEC 68-2-6 / 29	IEC 68-2-6 / 29
Available ICs	Unique, Q5, Hitag S, Titan	Unique, I-code, Sedna



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