


Functional principle

The UHF read/write heads form an air interface the size of which may vary, depending on the combination of read/write head and data carrier.

The read/write distances mentioned here only represent standard values measured under laboratory conditions and free from any influences caused by materials.

Attainable distances may vary due to component tolerances, mounting conditions, ambient conditions and material qualities, especially when mounted in metal.

Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!

Type designation	TW902-928-Q14L37-M-HT-B112
Ident-No.	100004170

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Data transfer	Alternating electromagnetic field
Technology	UHF (860...960 MHz)
Usage region (UHF)	FCC (902...928 MHz)
Reading range on metal	4 m (2W ERP)
Memory type	EEPROM
Chip	Alien Higgs 3
Memory	112 Byte
Memory	Read/Write
Freely usable memory	64 Byte
EPC memory	12 byte
Number of read operations	unlimited
Number of write operations	10 ⁵
Typical read time	2 ms/byte
Typical write time	3 ms/byte
Radio communication and protocol standards	ISO 18000-63 EPCglobal Gen 2

Temperature of data carrier during read/write access	-20...+85 °C
Temperature of data carrier outside detection range	-25...+85 °C 235, 1x 700h

Design	Hard tag, Hard tag
Housing length	14 mm
Housing width	27 mm
Housing height	5.9 mm
Active area material	Plastic, grey
Protection class	IP68

Packaging unit	1
Remark to product	High-temperature