



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 used.

The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding 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 on-the-fly reading and writing!

Type designation	TW902-928-Q31L34-M-HT-B1090
Ident-No.	7030698
Type	TW902-928-Q31L34-M-HT-B1090
Ident. no.	7030698
Data transfer	Alternating electromagnetic field
Technology	UHF (860...960 MHz)
Usage region (UHF)	FCC (902...928 MHz)
Reading range on metal	2.5 m (2W ERP)
Memory type	EEPROM
Chip	Impinj Monza X-8K Dura
Memory	1090 Byte
Memory	Read/Write
Freely usable memory	1024 Byte
EPC memory	16 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
Minimum distance to metal	0 mm
Temperature of data carrier during read/write access	-40...+85 °C
Temperature of data carrier outside detection range	-40...+85 °C
	180, 1x 600 h 200, 1 x 24 h 220, 1x 10 h
Design	Hard tag, Hard tag
Housing length	31 mm
Housing width	34 mm
Housing height	5.8 mm
Housing material	Plastic, PPS
Active area material	Plastic, PPS, black
Protection class	IP67
Packaging unit	1
Remark to product	High temperature, not suitable for repeated cyclical usage