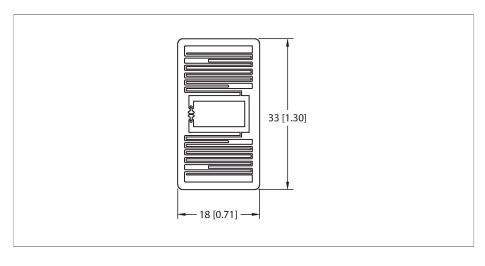


# TW860-960-L33-18-F-B40-10KPCS UHF Tag



#### Technical data

Remark to product  Remark to product  Smart-Label, self-adhesive  Data transfer  Alternating electromagnetic field  Technology  Region (UHF)  Region (UHF)  Reading range  4 m (2W ERP)  Memory type  EEPROM  Chip  Memory  Memory  40 Byte  Memory  Read/Write  Freely usable memory  4 Byte  EPC memory  Number of read operations  Number of write operations  Typical read time  Typical write time  Radio communication and protocol standards  Radio communication and protocol standards  Temperature during read/write access  Temperature during read/write access  Temperature outside detection range  Housing length  Packaging unit  1 1	Type	TW860-960-L33-18-F-B40-10KPCS
Data transfer  Technology  Region (UHF)  Region (UHF)  Reading range  4 m (2W ERP)  Memory type  Chip  Impinj Monza R6-P  Memory  4 Byte  Freely usable memory  Freely usable memory  16 byte  Number of read operations  Typical read time  Typical write time  Radio communication and protocol standards  Radio communication and protocol standards  Temperature during read/write access  Temperature during read/write access  Design  Smart Label  Housing length  18 mm  Protection class  INFO (18000-63 (1860960 MHz)  ETC (902928 MHz)  Heading (860960 MHz)  ETSI (865868 Mz)  ETSI (865868 MHz)  ETSI (865868 MHz)  ETSI (865868 MHz)  ETSI (86586 MHz)  ETSI (86586 MHz)  ETSI (86586 Metz)  ETSI (86586 MHz)  ETSI (86586 MHz)  ETSI (86586 Metz)  ETSI (86586  ETSI (86586  ETSI (86586  ETSI (865	ID	100003278
Technology  Region (UHF)  Region (UHF)  Region (UHF)  Redon (Blobal (860960 MHz) ETSI (865868 MHz) FCC (902928 MHz)  Reading range  4 m (2W ERP)  Memory type  EEPROM  Chip  Impinj Monza R6-P  Memory  40 Byte  Memory  Read/Write  Freely usable memory  4 Byte  EPC memory  16 byte  Number of read operations  Number of write operations  Typical read time  2 ms/Byte  Typical write time  Radio communication and protocol standards  Freely usable detection range  -40+85 °C  Temperature during read/write access  -40+85 °C  Design  Smart Label  Housing length  18 mm  Protection class  IP40	Remark to product	Smart-Label, self-adhesive
Region (UHF)  Global (860960 MHz) ETSI (865868 MHz) FCC (902928 MHz)  Reading range  4 m (2W ERP)  Memory type EEPROM  Chip Impinj Monza R6-P  Memory 40 Byte  Memory Read/Write  Freely usable memory 4 Byte  EPC memory 16 byte  Number of read operations unlimited  Number of write operations 10°  Typical read time 2 ms/Byte  Typical write time 3 ms/Byte  Radio communication and protocol standards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 18 mm  Protection class IP40	Data transfer	Alternating electromagnetic field
ETSI (865868 MHz) FCC (902928 MHz)  Reading range 4 m (2W ERP)  Memory type EEPROM  Chip Impinj Monza R6-P  Memory 40 Byte  Memory Read/Write  Freely usable memory 4 Byte  EPC memory 16 byte  Number of read operations unlimited  Number of write operations 10°  Typical read time 2 ms/Byte  Typical write time 3 ms/Byte  Radio communication and protocol standards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 18 mm  Protection class IP40	Technology	UHF RFID
Memory type  Chip Impinj Monza R6-P  Memory 40 Byte  Memory Read/Write  Freely usable memory 4 Byte  EPC memory 16 byte  Number of read operations unlimited  Number of write operations 10°  Typical read time 2 ms/Byte  Typical write time 3 ms/Byte  Radio communication and protocol standards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 18 mm  Protection class IP40	Region (UHF)	ETSI (865868 MHz)
Chip Impinj Monza R6-P  Memory 40 Byte  Memory Read/Write  Freely usable memory 4 Byte  EPC memory 16 byte  Number of read operations unlimited  Number of write operations 10°  Typical read time 2 ms/Byte  Typical write time 3 ms/Byte  Radio communication and protocol standards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 33 mm  Housing width 18 mm  Protection class IP40	Reading range	4 m (2W ERP)
Memory 40 Byte  Memory Read/Write  Freely usable memory 4 Byte  EPC memory 16 byte  Number of read operations unlimited  Number of write operations 10°  Typical read time 2 ms/Byte  Typical write time 3 ms/Byte  Radio communication and protocol standards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 33 mm  Housing width 18 mm  Protection class IP40	Memory type	EEPROM
Memory  Freely usable memory  4 Byte  EPC memory  16 byte  Number of read operations  unlimited  Number of write operations  10°  Typical read time  2 ms/Byte  Typical write time  3 ms/Byte  Radio communication and protocol standards  EPCglobal Gen 2  Temperature during read/write access  -40+85 °C  Temperature outside detection range  -40+85 °C  Design  Smart Label  Housing length  18 mm  Protection class  IP40	Chip	Impinj Monza R6-P
Freely usable memory  EPC memory  16 byte  Number of read operations  Number of write operations  Typical read time  Typical write time  Radio communication and protocol standards  EPCglobal Gen 2  Temperature during read/write access  Temperature outside detection range  Housing length  Housing width  Protection class  16 byte  16 byte  18 byte  10°  10°  18 mm  19°  18 mm  1940	Memory	40 Byte
EPC memory  Number of read operations  Number of write operations  Typical read time  2 ms/Byte  Typical write time  3 ms/Byte  Radio communication and protocol standards  EPCglobal Gen 2  Temperature during read/write access  Temperature outside detection range  -40+85 °C  Temperature outside detection range  -40+85 °C  Design  Smart Label  Housing length  18 mm  Protection class  IP40	Memory	Read/Write
Number of read operations unlimited  Number of write operations 10°  Typical read time 2 ms/Byte  Typical write time 3 ms/Byte  Radio communication and protocol standards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 33 mm  Housing width 18 mm  Protection class IP40	Freely usable memory	4 Byte
Number of write operations  Typical read time  2 ms/Byte  Typical write time  3 ms/Byte  Radio communication and protocol standards  EPCglobal Gen 2  Temperature during read/write access  -40+85 °C  Temperature outside detection range  -40+85 °C  Design  Smart Label  Housing length  18 mm  Protection class  IP40	EPC memory	16 byte
Typical read time  Typical write time  3 ms/Byte  Radio communication and protocol standards  EPCglobal Gen 2  Temperature during read/write access  -40+85 °C  Temperature outside detection range  -40+85 °C  Design  Smart Label  Housing length  18 mm  Protection class  IP40	Number of read operations	unlimited
Typical write time 3 ms/Byte  Radio communication and protocol standards ISO 18000-63 EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 33 mm  Housing width 18 mm  Protection class IP40	Number of write operations	10 <sup>5</sup>
Radio communication and protocol standards  EPCglobal Gen 2  Temperature during read/write access  -40+85 °C  Temperature outside detection range  -40+85 °C  Design  Smart Label  Housing length  33 mm  Housing width  18 mm  Protection class  IP40	Typical read time	2 ms/Byte
dards EPCglobal Gen 2  Temperature during read/write access -40+85 °C  Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 33 mm  Housing width 18 mm  Protection class IP40	Typical write time	3 ms/Byte
Temperature outside detection range -40+85 °C  Design Smart Label  Housing length 33 mm  Housing width 18 mm  Protection class IP40	•	
Design Smart Label Housing length 33 mm Housing width 18 mm Protection class IP40	Temperature during read/write access	-40+85 °C
Housing length 33 mm  Housing width 18 mm  Protection class IP40	Temperature outside detection range	-40+85 °C
Housing width 18 mm  Protection class IP40	Design	Smart Label
Protection class IP40	Housing length	33 mm
	Housing width	18 mm
Packaging unit 1	Protection class	IP40
	Packaging unit	1

### **Features**

- ■EEPROM, memory 40 byte
- ■TID serial number: 6 byte
- ■Not for direct mounting on metal

## 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 tag.

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!



### Mounting instructions/Description



General Information

When mounting the tags, only remove them from the roll immediately before affixing them. Remove any dirt from the surfaces to be bonded and allow to dry. Liquids, oils, greases and other substances can reduce the effectiveness of the adhesive. If possible, affix the tag at room temperature (20–25 °C).

Defective tags are indicated by a black dot. Please do not use this tag. Upon delivery, the number of marked defective tags is added to the total number of Smart Labels delivered.