



Low profile, USB powered UHF RFID Reader

1126 Desktop UHF RFID Reader with USB

Hands free UHF RFID scanning

This low profile desktop UHF RFID reader is designed to read and write to EPC Class 1 Generation 2 (ISO 18000-6C) UHF RFID transponders. It is powered by (and communicates via) a standard USB connection, providing a convenient device that can be hosted by any PC. It is designed for operation in either European (ETSI EN 302 208) environments, including Dense Reader Mode Capability or North American FCC environments.

The 1126 Desktop UHF RFID Reader with USB is ideal for Retail Point of Sale, document tracking and access control applications

An extensive software development kit (SDK) is available for development of customer applications

Features:

High Performance UHF RFID Reading and Writing

Integrated circularly polarised antenna provides up to 1.5m (5 feet) read range (tag and environment dependent)

Small footprint

Small footprint enclosure – 110mm(w) × 110mm max (l) × 35mm(d)

Usability

Simple USB interface provides both power and communications. Audible and visual indication of successful read.

Configurable power

Programmable RF power control from 1 to 29 dBm (in steps of 1dBm)

TSL 1126 Specifications

Physical Characteristics

Dimensions (max):	110mm(w) × 110mm(l) × 35mm(d) (4.3" x 4.3" x 1.4")
Weight:	175g (6.2 oz.)
Enclosure material:	GE Lexan Polycarbonate
Colour:	Grey/black
Material finish:	Sparkled surface
User indication:	LEDs for 'Power Good' (orange), 'Read OK' (green), 'communication' (red). Buzzer

UHF RFID Reader

Frequency:	865 – 868 MHz (ETSI version) 902 – 928 MHz (FCC version)
RF Power:	10 - 800 mW (software controlled)
Antenna:	Circularly Polarised
Read Distance:	Up to 1.5m (5 feet) - (tag dependent)

Connectivity

Power and data:	Mini USB B connector. Must be connected to a high power port on the host (500mA)
Drivers	Virtual comm. port drivers available for Windows XP/Vista/7, Windows CE 4.2 and above, Linux and Mac OS8,9,X

Environmental

Operating Temp.:	-20 °C to +50 °C (-4 °F to 122 °F)
Storage Temp.:	-40 °C to +60 °C (-40 °F to 140 °F)
Humidity:	Up to 90% Relative humidity Non Condensing
Drop Spec:	76.2cm (30 inch) drops to vinyl tiled concrete at room temperature.
Sealing:	TBA, conformal coated electronics
Electrostatic Discharge (ESD):	+/-12kV air discharge, +/-8kV direct discharge
Construction:	RoHS compliant

Regulatory

Electrical Safety:	TBC
EMI/RFI:	TBC

Part Numbers

1126-01-DTR-UHF	ETSI variant
1126-02-DTR-UHF	FCC variant

Warranty

The TSL 1126 reader is warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

About TSL

TSL designs and manufactures both standard and custom embedded, snap on and standalone peripherals for handheld computer terminals. Embedded technologies include:

RFID - Low Frequency, High Frequency & UHF
Bluetooth
Contact Smartcard
Fingerprint Biometrics
1D and 2D Barcode Scanning
Magnetic Card Readers
OCR-B and ePassport

Utilizing class leading Industrial design, TSL develops products from concept through to high volume manufacture for Blue Chip companies around the world. Using the above technologies TSL develops innovative products in a timely and cost effective manner for a broad range of handheld devices.

Contact TSL

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