

N-TP-TSL-1128

Bluetooth® UHF RFID Reader

General

The 1128 Bluetooth® UHF RFID Reader is designed to read and write to EPC Class 1 Gen 2 (ISO18000-6C) UHF transponders and communicate with a variety of host devices via Bluetooth® wireless technology. With its Impinj R2000 core and range of interchangeable high performance antennas the 1128 performs like no other reader, giving the user the highest levels of flexibility currently available in today's market. The reader can be configured with class leading high performance 2D data scanning to bring unparalleled data collection capabilities to connected devices.

Application Specific

The new Kidde range of addressable fire alarm field devices are now RFID enabled. The combination of the ActivSense Configuration Toolkit with this reader allows installation and maintenance to be contact free on Kidde's new commercial fire alarm systems in EMEA. The ActivSense Configuration Toolkit gives the professional fire engineer immediate access to device configuration data, diagnostic test and maintenance functions as well as device event logs. This helps to speed up installation, commissioning and maintenance processes, maximising efficiency and minimising time spent on site, reducing service costs.



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Technical specifications

Electrical

Electrical	Removable, rechargeable 4.2 V Lithium Polymer 2400 mAh battery pack, 8.9 Wh
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Physical

Physical dimensions	160 × 77 × 169 mm (L x W x H) w/ trigger handle) 160 × 77 × 97 mm (L x W x H) w/ slimline grip)
Net weight	380 g (13.4 oz) w/ battery & trigger handle
User input:	Trigger button
User feedback:	Speaker, vibration motor, LED

Environmental

Vandal proof	No
Operating temperature	-10°C to 40°C (14°F to 104°F)
Storage temperature	-20°C to +45°C (-4°F to 113°F) less than 1 month -20°C to +35°C (-4°F to 95°F) less than 6 months
Relative humidity	5% to 85% non-condensing
Environment	Indoor
IP rating	IP54
Charging temperature:	5°C to 40°C (41°F to 104°F)
Drop specification:	Multiple drops to concrete: 4 ft./1.2 m ambient, 3 ft / 0.9 m across the operating temperature range
Tumble:	500 0.5 metre tumbles at room temperature (1,000 cycles)
Electrostatic discharge:	± 15 kVDC air discharge; ± 8 kVDC contact discharge

Regulatory

Compliance	CE, WEEE
Standards	MIL-STD 810F UL60950-1 CSA C22.2 No. 60950-1 IEC 60950-1 EN 60950-1

Performance Characteristics

RFID engine:	TSL custom module with embedded Impinj R2000
Communication protocols:	TSL® ASCII 2.0 parameterised command set, Impinj binary
Memory: (optional)	Micro SD card (32GB max) with storage for up to 500 000 000 date & time stamped EPCs
Compatible host devices (Bluetooth®):	Any Bluetooth® Host supporting the Serial Port Profile (SPP) or Human Interface Device (HID) profile (Android, iOS, Linux, Mac, Windows).
Compatible host devices (USB):	Any USB host with FTDI VCP driver support (Android, Linux, Mac, Windows)

RFID Performance

Standards supported:	EPC Class 1 Gen 2
Nominal read range:	Up to 7 m (23 ft) - Tag & Environment dependent
Nominal write range:	Up to 2 m (6.5 ft) - Tag & Environment
Field:	±150° forward facing from front of device
Antenna:	Detachable, circularly polarised with optional 2D scanner
Frequency range:	EU: 865-868 MHz; US: 902-928 MHz
Output Power:	29 dBm
Antenna Options:	High performance CP, High performance CP w/ 2D imager, & custom antennas available

Communication

Bluetooth®:	v 2.1
Bluetooth® pairing:	SPP Profile HID Profile Apple iAP
Bluetooth® power:	Class 2
Bluetooth® range:	< 30 m
Bluetooth® pairing:	PIN, Simple Secure Pairing, NFC OOB Pairing

Peripherals & Accessories

External interface:	MicroUSB connector for battery charging and USB connectivity.
USB operating modes:	Tethered for real time data capture in conjunction with SmartWedge software. Download of stored scan data.
Optional desktop charger:	TSL 1136 4-Slot battery charger
Other accessories:	Adapter mounts for a variety of smartphones, handheld terminals and touchscreen MP3 players Slimline Grip, Trigger Handle

Standards & regulation

General:	Approved for use in the US, Canada, Europe, Australia, Brazil, China, Hong Kong, Japan, Malaysia, Singapore, South Korea, Taiwan, Thailand and UAE.
Laser Safety:	IEC Class2/FDA Class II in accordance with IEC60825- 1/EN60825-1, 21CFR1040.10
EMI/RFI:	USA: FCC Part 15 Canada: ICES 003 Class B EU: EN 301 489-3, EN 301 489-1, EN 301 489-17, EN 302-208, EN55022 Class B, EN55024



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