




Homologação
10282-21-03092  ANATEL

Features

High performance in UHF RFID data capture

Independent Hardware and OS

Compatible with iOS, Android and Windows Operating Systems. Operates with a wide variety of devices that have Bluetooth® wireless technology, including smartphones, tablets, portable business devices, computers, and laptops.

Flexible configuration

Interchangeable antennas and media, with a variety of device-specific media.

Batch data collection

High-capacity removable Micro SD data card and real-time clock for extended batch data collection, regardless of host connection.

RFID data collection performance like no other

The BTL-1000 Bluetooth® RFID reader offers a high level of RFID performance. With the R2000 chip and high-performance antennas, the BTL-1000 stands out like no other reader, providing users with the highest levels of flexibility in their applications. Designed to read and write to EPC Class 1 Gen 2 (ISO18000-6C) tags.

Platform-independent UHF RFID reader

It offers extensive support for a variety of devices that utilize Bluetooth technology.

Development

The BTL-1000 Bluetooth® UHF RFID reader uses TSL's unique ASCII protocol, providing faster and easier application development. This sophisticated, parameterized ASCII protocol provides developers with a powerful set of commands that perform various actions directly on the reader. This approach allows you to perform various operations through simple, preconfigured ASCII commands. This not only accelerates reader integration into applications, but also abstracts the developer from the complexities of the native API, resulting in unparalleled levels of performance.

Proper configuration for your application

The choice of ergonomic styling includes a compact handle and a comfortable trigger handle for RFID data retrieval applications. EPC data can be stored on an optional Micro SD memory card (up to 500 million EPCs transponder on a 32GB card – not included). This provides the ability to collect and record data even if USB or Bluetooth® communication channels are not available.



RFID EXPLORER

RFID Explorer is a dedicated app built to demonstrate the performance, functionality and versatility of UHF RFID Readers, and the powerful ASCII protocol.



RFID SCAN SCAN WRITE

Scans UPC-based barcode information and uses it to encode UHF RFID tags (requires SGTIN-96 compliant EPCs).



RFID TAG FINDER

RFID Tag Finder will help you locate those hard-to-find RFID tagged assets, complete with visual and audio indicators.



RFID WEB WEDGE

The app enables direct data input from the UHF Reader into existing Web Applications.

Technical Specifications

Physical	
Dimensions	160 x 77 x 169 mm - Kitten cuff 160 x 77 x 97 mm - Fine grip
Weight	375 g (Including battery and trigger)
User input	Trigger button
Feedback	Sound, vibration and LED
Battery	Removable, rechargeable 3.7 V, 2400 mAh, 8.9 Wh, lithium polymer battery.
Minimum uptime ¹	Light use: 6 hours Moderate use: 3,5 hours Heavy use: 1,5 hours
Material	Polycarbonate
Environmental	
Operating temp.	-10°C to 40°C
Charging temp.	5°C to 40°C
Temperature of use	< 1 month: -20°C to 45°C < 6 months: -20°C to 35°C
Humidity	5% up to 85% non-condensing
Drop Specs	Multiple drops in concrete: 1.2 m. Ambient, 0.9 m in all operating temperature range.
Fall	500 falls of 0.5 m at room temperature (1000 cycles)
IP Rating	IP54
Elect. discharge	±15 kVdc electrical discharge in air, ±8 kVdc direct discharge.
MIL-STD 810F	Meets and exceeds MIL-STD 810F applicable for drop and seal.
Performance	
RFID	Custom TSL module with built-in Impinj R2000.
Communication protocols	Comand TSL ASCII 2.
Memory	Optional Micro SD card (maximum supportable capacity of 32 GB). Up to 500 million data and timestamp of EPCs can be stored on the card.
Supported host devices	Bluetooth®: Supports any type of Bluetooth device that supports Serial Port Profile (SPP) or Human Interface Device (HID). Android, IOS, Linux, Mac, Windows. USB: Supports any USB device with FTDI VCP driver (Windows, Linux, Mac, Android).
Performance RFID	
Protocol	EPC Class 1 Gen 2
Reading range	Up to 5.5 m
Writing range	Up to 2 m
Reading field	150° facing forward (approximately) measured from the front of the reader.
Antenna	Circular polarization
Frequency	US: 902-928 MHz
Maximum power	Up to 29 dBm (dependent). +3.0 dBIC of the antenna.
Antenna options	High performance CP 500.928: 600.251: Belt Holster for TSL-1128 600.253: Micro USB Charger Kit & Power Supply

Communication	
Bluetooth®	Bluetooth® versão 2.1
Frequency range	2,4 - 2,4835 GHz
Bluetooth profile	SSP, HID, Apple iAP
TX Power	TX Power + 3 dBm (class 2)
Scope	Up to 30 m
Pairing	PIN, simple secure pairing, NFC OOB pairing.
Accessories	
External interface	MicroUSB connector for charging. And USB connection.
USB operating modes	Connected for real-time data capture in conjunction with SmartWedge software. Download stored scan data
Optional charger	4-slot table charger
Other accessories	Adapter mounts are available for a variety of portable mobile phone terminals. Slimline Grip, Trigger Handle.
Regulation	
Regions	EU (CE), USA (FCC), Canadá, Austrália, Anatel and more.
FCC ID	S6J1128.
EMC	EN 55032-2015 +A11:2020 EN 55035-2015 +A11:2020 47 CFR Part 15B ICES-003:2020 Issue 7
RF	EN 300 328 V2.2.2 EN 302 208 V3.2.0 EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.4 47 CFR Part 15C 15.247 RSS-247 Issue 1
Electrical safety	IEC 62368-1:2018 EN 62368-1:2020 +A11:2020 UL 62368-1:2019 CAN/CSA C22.2 No.62368-1:19
Environment	2011/65/EU (RoHS 2) Restriction of use of certain hazardous substances in electrical. 2015/836 (RoHS 3) Amendment of Annex 2 to 2011/65/EU

¹ 20-second readings every 120 seconds. 10-second readings every 30 seconds. 59-second readings every 60 seconds.
² Sold separately

Accessories



Micro USB Charger Kit & Power Supply



4-Slot Battery Charger for TSL-1128



Support for smartphones



Li-polymer battery 2000 mAh 3.7V



Belt Holster for TSL-1128

Purchase Code:

500.945: TSL-1128 UHF RFID Reader

Accessory Purchase Code:

500.925: Support for smartphones
500.927: Li-polymer battery 2000 mAh 3.7V
500.928: 4-Slot Battery Charger for TSL-1128
600.253: Micro USB Charger Kit & Power Supply
600.254: Belt Holster for TSL-1128