3138 RFID SLED FOR MEMOR FAMILY

Track Faster, Work Smarter

Together with TECHNOLOGY SOLUTIONS UK LTD
TSL® | Global Leaders in Mobile RFID

HIGH-SPEED, HIGH-ACCURACY RFID

With the new **Impinj E710 engine**, the 3138 delivers outstanding performance, reading up to **1200 tags per second** with exceptional sensitivity. Intelligent de-duplication manages up to one million transponders without slowing the host, while multiple tag operations in a single scan read, write, or lock, give operators greater flexibility. This speed and accuracy cut inventory times, streamline workflows, and boost productivity.

MEMOR FAMILY INTEGRATION

Part of the wider **Memor ecosystem**, the 3138 can be bundled with **Datalogic Memor PDAs,** including Memor 11, 12/17, and 30/35, through dedicated mounts. This creates modular solutions that combine enterprise-class mobile computing with high-performance RFID. Across retail, logistics, manufacturing, and healthcare, integration with the **Memor** family ensures speed, comfort, and reduced complexity.

ADVANCED CONNECTIVITY

Connectivity is built for every scenario. The **ePop-Loq® interface** ensures a secure physical connection between the reader and the host device, allowing both the **Sled and the Memor™ PDA to charge simultaneously**, while maintaining wireless freedom through Bluetooth Classic, BLE, and NFC pairing. The 3138 works smoothly with Android, iOS, Windows, Linux, and Mac, and its latest ASCII protocol makes development faster and easier. The result is reliable, flexible, and future-proof communication.

MADE FOR CONTINUOUS OPERATION

The 3138 is designed to perform reliably around the clock. A **power handle** with extended battery and **hot-swap support** enables true 24/7 uptime. Rugged polycarbonate housing, tested for drops, tumbles, and extreme conditions, guarantees reliability in the toughest environments. Long life, uninterrupted use, and durable design make it a reader built for real-world performance.

FEATURES

- Up to 6x faster tag read rate: gathers RFID data at a blistering pace - up to 1200 tags per second
- Multiple RF Profiles
  - high sensitivity
  - maximum read rate
  - dynamic switching between modes
- ETSI Upper Band Option
- Bulk encoding feature
- Advanced security: powered by HID OmniKey™
- *Bluetooth* improvements: around a 2x speed boost for Bluetooth Classic in iOS. BLE forward compatible (no need for MFI app approval, Out of band battery status and device information
- Hardware and OS Indipendence: operates with Android, iOs, Linux, Mac and Windows
- Batch Mode Operation: Real time clock for extended batch data collection indipendent of host connection. Store milions of tags and barcodes with date and time stamping

INDUSTRIES - APPLICATIONS

Retail: In-store and Back Room Inventory, Item location, Price Checking
Transportation & Logistics: Receiving Control, Picking, Item Tracking and Location, Air baggage tracking
Manufacturing: Material/Finished Goods Inventory, Locating, Cycle Counting, Receiving Control, Automatic Replenishment
Healthcare: Surgical Instrument Tracking, Sample Tracking, Blood Bag Tracking, Pharmaceutical and Laboratory Inventory

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TECHNICAL SPECIFICATIONS

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Dimensions	158 x 98 x 170 mm (LxWxH)
Weight	550g (including Power Handle)
User input	Trigger button
User feedback	Speaker, vibration motor, LED - user configurable
Power	Rechargeable 25.4Wh, 7.3V Lithium Polymer battery pack
Minimum operating time[1]	Light use[2]: 20hrs Moderate use[3]: 11 hrs (preliminary estimates) Heavy use[4]: 6.5 hrs
Input rating	USB-C with Power Delivery (40W with ePop-Loq, 20W reader only)
Enclosure materials	Polycarbonate

[1] Tag Read/Write performance dependent on tag type, items tagged, number of tags in the field and other radio and environmental factors.

PERFORMANCE CHARACTERISTICS

RFID engine	Custom module with embedded Impinj E710
Communication protocols	ASCII 3 parameterised command set
Security features	HID OmniKey™ Security Chip
Memory	Embedded 32GB[5] storage memory - store up to 500 million date and time stamped EPCs
Compatible host devices (Bluetooth®)	Any Bluetooth® Host[6] 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 USB CDC support (Windows, Linux, Mac, Android)

ENVIRONMENTAL

Operating temp.	-10°C to 50°C (14°F to 122°F)
Charging temp.	5°C to 40°C (41°F to 104°F)
Storage temp.	Less than 1 month at -20°C to +45°C (-4°F to 113°F). Less than 6 months at -20°C to +35°C (-4°F to 95°F).
Humidity	5% to 85% non-condensing
Drop spec	IP54; Multiple drops to concrete: 4 ft./1.2 m ambient, 3ft / 0.9m across the operating temperature range
Tumble	1000 0.5 metre tumbles at room temperature (2000 cycles)
Electrostatic Discharge (ESD)	± 15kVdc air discharge; ± 8kVdc contact discharge
MIL-STD 810F	Meets and exceeds applicable MIL-STD 810F for drop, tumble and sealing

RFID PERFORMANCE

Standards supported	EPC Class 1 Gen 2 v2
Nominal read range[7]	Up to 9 m (29.5 ft)
Nominal write range[7]	Up to 4 m (13.1 ft)
Field	150-degree forward facing (approx.)
Antenna	Right Hand Circularly Polarised
Frequency Range	EU: 865-868MHz, 916-919MHz US: 902-928MHz
Maximum Output Power	Up to 30 dBm (region dependent) + 4.0 dBiC Antenna

COMMUNICATION

Bluetooth	*Bluetooth*® v4.2 compliant (v5.1compatible)
Bluetooth GATT Services	• Device Information Service • Battery Service • HID over GATT • Serial over GATT
Bluetooth frequency range:	2.4 - 2.4835 GHz
Bluetooth profiles	SPP Profile, HID Profile, Apple iAP2,Bluetooth Low Energy
Bluetooth range[9]	Up to 100m
Bluetooth pairing	Simple Secure Pairing, NFC OOB Pairing
Physical host device connection	Direct connection via ePop-Loq® cases (separate purchase)

[1] Minimum operating time figures are based on new units that have been stored, charged and operated within the stated Environmental Specifications. Units stored over 3 months must be recharged every 3 months. Number of transponders in the environment affects minimum operating time.

[2] Light Use: Continuous RFID inventories for 20s of every 120s

[3] Moderate Use: Continuous RFID inventories for 10s of every 30s

[4] Heavy Use: Continuous RFID inventories for 59s of every 60s

[5] Up to 256GB microSD card storage supported. 32GB fitted as standard

[6] Compatible Bluetooth® stack required in the Host device

[7] Tag Read/Write performance is dependent on tag type, items tagged, number of tags in the field and other radio and environmental factors

[8] Open field

PERIPHERALS AND ACCESSORIES

3138 UHF RFID Handheld Reader

DLR-SLED02-US, DLR-SLED03-US, DLR SLED03-EU, DLR-SLED02-EU Includes removable, rechargeable Lithium-Ion Battery Pack

Active ePop-Loq case for Memor 30/35 (required) - Memor 12/17 - Memor 11 (required)

AH-SLED01, AH-SLED02, AH-SLE03
To connect the 3138 UHF RFID handheld reader with the Memor 11 PDA

Charging Cradle (required only for Pogo Pins version)

CC-SLED02 Provides dual charging of the UHF RFID hand-held reader and a connected Memor 11 PDA. The 3138 Docking Station Kit is supplied separately and includes the docking station and a mini USB data cable.

Swap Power Handle

RBP-SLED02, RBP-SLED03

USB-C Cable

94ACC0327

Power Wall Adapter

PWS-SLED02

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TECHNICAL SPECIFICATIONS

PERIPHERALS AND ACCESSORIES	
External interface	USB-C connector or custom 8-Way Power-Pin connector (for use with docking cradle)
Power supply management	Separate purchase (see accessories PN)
Other accessories available	Adapter mounts for a variety of smartphones and handheld terminals
REGULATORY	
Regions	EU (CE), USA (FCC), Canada (see page 4 for details)
FCC ID	S6J2128
IC	8948A-2128
EMC	EN 55032: 2015+A11:2020, Class A EN 6100-3-2: 2014, Class A EN IEC 61000-3-2: 2019+A1:2021, Class A EN 61000-3-3: 2013+A1:2019+A2:2021 EN 55035: 2017+A11:2020 EN 301 489-1 V2.2.3 (2019-11) EN 301 489-3 V2.3.2 (2023-01) EN 301 489-17 V3.2.4 (2020-09) 47 CFR FCC Part 15, Subpart B, Class A ANSI C63.4-2014 ANSI C63.4a-2017 ICES-003: 2020 Issue 7, Class A ICES-Gen: 2018 Issue 1 +A1:2021 ANSI C63.4-2014 amended as per ANSI C63.4a-2017
RF	EN 302 208 V3.3.1 (2020-08) 47 CFR FCC Part 15, Subpart C (Section 15.247) ANSI C63.10-2013 Canada RSS-247 Issue 3, August 2023 Canada RSS-Gen Issue 5, Amendment 2, February 2021 ANSI C63.10-2013
RF Exposure	EN 50566:2017 EN 62209-2:2010/A1:2019 IEC 62209-2:2010/AMD1:2019 EN 50663:2017 EN 62479:2010 EN 50364:2018 EN 62369-1:2009 IEEE Std 1528:2013 KDB 865664 D01 v01r04 KDB 865664 D02 v01r02 KDB 447498 D01 v06 ISED RSS-102 Issue 5:2015/AMD1:2021 IEC/IEEE 62209-1528:2020
Electrical Safety	IEC 62368-1:2018 UL 62368-1:2019 CSA C22.2 No. 62368-1:19
Environmental	**2011/65/EU (RoHS 2)** Restriction of the use of certain Hazardous Substances in electrical and electronic equipment **2015/863 (RoHS 3)** Amendment to Annex II of 2011/65/EU

WARRANTY

The 3138 reader is warranted against manufacturing defects 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.

TERMS

“Made for iPod,” “Made for iPhone,” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

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RFID Explorer


RFID Tag Finder


RFID Web Wedge


RFID Scan Scan Write


3138 Reader Configuration

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PART NUMBERS

COUNTRIES			PART NUMBERS (USB-C POWERS HANDLE)**	OPERATING FREQUENCY
Albania	Georgia (License Required)	Malta	DLR-SLED03-EU	ETSI Lower Band 865 – 868 MHz 4 Channels
Andorra	Germany	Martinique		
Austria	Greece	Monaco		
Belgium	Greenland	Montenegro		
Bhutan	Guernsey	Netherlands		
Bosnia & Erzegovina	Guedaloupe	Norway		
Bulgaria	Hungary	Poland		
Croatia	Iceland	Portugal		
Cyprus	Ireland	Romania		
Czech Republic	Italy	Slovakia		
Denmark	Jersey	Slovenia		
Estonia	Latvia	Spain		
Falkland Islands	Liechtenstein	Sweden		
Finland	Lithuania	Switzerland		
France	Luxembourg	United Kingdom (UK)		
French Guiana	Macedonia			
United States of America (USA) Guam Guatemala Northern Mariana Islands	Canada Ecuador Puerto Rico		DLR-SLED03-US	902-928 MHz 50 Channels

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