# Datalogic 3138

## Datalogic 3138 – High-speed RFID reader for the Datalogic Memor series

**High-speed RFID reading at up to 1,200 tags per second**
Speeds up processes from stock-taking to goods dispatch and ensures reliable data capture even when there is a high volume of tags.

**RFID and barcode scanning using mobile computers from the Datalogic Memor range**
Compatible devices from the Memor 11, Memor 12/17 and Memor 30/35 series provide powerful solutions for the simultaneous capture of RFID tags and barcodes in a single step.

**Secure connection and flexible communication via ePop-Loq and Bluetooth**
Ensures a stable connection during intensive use, supports simultaneous charging and simplifies connection to various host systems.

**Designed for long shifts with a hot-swappable battery and a robust build**
The removable battery and robust housing ensure reliable performance in demanding working environments.

**Smart data processing for large volumes of tags**
The intelligent duplicate detection system can manage up to one million transponders without any loss of performance. In batch mode, the device stores millions of tags and barcodes along with the date and time, even without a host connection.

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## Features

**RFID**: UHF, EPC Class 1 Gen 2 v2, nominal read range up to 9 m

**Barcodes**: with compatible Datalogic Memor mobile computer

**Communication with mobile computer**: ePop-Loq connection, USB-C, Bluetooth (pairing via NFC tag)

**Feedback**: speaker, vibration, LED

**Battery**: 25.4 Wh, up to 20 hours, hot-swappable

**Protection**: IP54, drop-proof up to 1.2 m onto concrete

**Operating temperature**: -10 °C to 50 °C

**Dimensions** (W x L x H): 98 x 158 x 170 mm

**Weight**: 550 g

## Optional accessories

**Mounts for Datalogic Memor mobile computers**

**Charging station**

**Replacement handle**

# Datalogic 3138

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## 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<br>Moderate use[3]: 11 hrs (preliminary estimates)<br>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).<br>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<br>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<br>• Battery Service<br>• HID over GATT<br>• Serial over GATT |
| ***Bluetooth frequency range:*** | 2.4 - 2.4835 GHz |
| ***Bluetooth profiles*** | SPP Profile, HID Profile, Apple iAP2,Bluetooth Low Energy |
| ***Bluetooth range[8]*** | 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 | |
|---|---|
| *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<br>EN 6100-3-2: 2014, Class A<br>EN IEC 61000-3-2: 2019+A1:2021, Class A<br>EN 61000-3-3: 2013+A1:2019+A2:2021<br>EN 55035: 2017+A11:2020<br>EN 301 489-1 V2.2.3 (2019-11)<br>EN 301 489-3 V2.3.2 (2023-01)<br>EN 301 489-17 V3.2.4 (2020-09)<br>47 CFR FCC Part 15, Subpart B, Class A<br>ANSI C63.4-2014<br>ANSI C63.4a-2017<br>ICES-003: 2020 Issue 7, Class A<br>ICES-Gen: 2018 Issue 1 +A1:2021<br>ANSI C63.4-2014 amended as per ANSI C63.4a-2017 |
| *RF* | EN 302 208 V3.3.1 (2020-08)<br>47 CFR FCC Part 15, Subpart C (Section 15.247)<br>ANSI C63.10-2013<br>Canada RSS-247 Issue 3, August 2023<br>Canada RSS-Gen Issue 5, Amendment 2, February 2021<br>ANSI C63.10-2013 |
| *RF Exposure* | EN 50566:2017<br>EN 62209-2:2010/A1:2019<br>IEC 62209-2:2010/AMD1:2019<br>EN 50663:2017<br>EN 62479:2010<br>EN 50364:2018<br>EN 62369-1:2009<br>IEEE Std 1528:2013<br>KDB 865664 D01 v01r04<br>KDB 865664 D02 v01r02<br>KDB 447498 D01 v06<br>ISED RSS-102 Issue 5:2015/AMD1:2021<br>IEC/IEEE 62209-1528:2020 |
| *Electrical Safety* | IEC 62368-1:2018<br>UL 62368-1:2019<br>CSA C22.2 No. 62368-1:19 |
| *Environmental* | **2011/65/EU (RoHS 2)**<br>Restriction of the use of certain Hazardous Substances in electrical and electronic equipment<br>**2015/863 (RoHS 3)**<br>Amendment to Annex II of 2011/65/EU |