























Comparison of TSL® Mobile UHF RFID Readers

|  | <br><b>1153</b>  | <br><b>1128</b>   | <br><b>2128</b>  | <br><b>2128P</b>  | <br><b>2128L</b>  | <br><b>1166</b>  | <br><b>2166</b>  |
|--|---|--|--|--|--|---|---|
| Read Range   | Up to 2 m (6.5 ft)  | Up to 5.5 m (18 ft)  | Up to 6 m (19.6 ft)  | Up to 9 m (29.5 ft)  | Up to 15 m (49 ft)<br><small>*Orientation dependent</small>  | Up to 9 m (29.5 ft)   | Up to 9 m (29.5 ft)   |
| Maximum RF Output Power  | Up to 26 dBm EIRP (region dependant)  | Up to 32 dBm EIRP (region dependant)   | Up to 33 dBm EIRP (region dependant)   | Up to 34 dBm EIRP (region dependant)   | Up to 35 dBm EIRP (region dependant)   | Up to 34 dBm EIRP (region dependant)  | Up to 34 dBm EIRP (region dependant)  |
| IP Rating  | IP54  | IP54   | IP54   | IP54   | IP54   | IP67  | IP67  |
| Bluetooth® version   | Bluetooth® 2.1  | Bluetooth® 2.1   | Bluetooth® 4.2<br><small>Supports Classic, BLE &amp; IAP2</small>  | Bluetooth® 4.2<br><small>Supports Classic, BLE &amp; IAP2</small>  | Bluetooth® 4.2<br><small>Supports Classic, BLE &amp; IAP2</small>  | Bluetooth® 2.1  | Bluetooth® 4.2<br><small>Supports Classic, BLE &amp; IAP2</small>   |
| Apple Mfi certified  | Yes   | Yes  | Yes  | Yes  | Yes  | Yes   | Yes   |
| Optional 2D barcode imager                                     | Yes   | Yes  | Yes  | Yes  | No   | Yes   | Yes   |
| Internal Storage   | Up to 32 GB*<br><small>*via Micro SD card (not supplied)</small>  | Up to 32 GB*<br><small>*via Micro SD card (not supplied)</small>   | Up to 32 GB*<br><small>*via Micro SD card (not supplied)</small>   | Up to 32 GB*<br><small>*via Micro SD card (not supplied)</small>   | 16 GB*<br><small>*For units manufactured in August 2020 onwards. Units manufactured before this date will be 8 GB.</small>   | 16 GB*<br><small>*For units manufactured in August 2020 onwards. Units manufactured before this date will be 4 or 8 GB.</small>   | 16 GB*<br><small>*For units manufactured in August 2020 onwards. Units manufactured before this date will be 8 GB.</small>  |
| No. of tags that can be stored on an SD card (Batch Data Mode) | Up to 500 million tags<br><small>*via Micro SD card (not supplied)</small>  | Up to 500 million tags<br><small>*via Micro SD card (not supplied)</small>   | Up to 500 million tags<br><small>*via Micro SD card (not supplied)</small>   | Up to 500 million tags<br><small>*via Micro SD card (not supplied)</small>   | Up to 250 million tags<br><small>*For units manufactured in August 2020 onwards.</small>   | Up to 250 million tags<br><small>*For units manufactured in August 2020 onwards.</small>  | Up to 250 million tags<br><small>*For units manufactured in August 2020 onwards.</small>  |
| Tag de-duplication (removes duplication of tag reads)          | Software Based  | Software Based   | Software Based   | In-reader tag de-duplication   | In-reader tag de-duplication   | Software Based  | In-reader tag de-duplication  |
| On-board accelerometer   | No  | No   | No   | Yes  | Yes  | No  | No  |
| Drop Spec  | 1.2 m*<br><small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>  | 1.2 m*<br><small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>   | 1.2 m*<br><small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>   | 1.2 m*<br><small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>   | 1.2 m*<br><small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>   | 1.8 m*<br><small>*Multiple drops to concrete: 1.8 m ambient.</small>  | 1.8 m*<br><small>*Multiple drops to concrete: 1.8 m ambient.</small>  |
| Mounting Options for Smartphone or Hand-Held Terminal          | Wearable (back of hand)   | Slide-on Mounts*   | ePop-Loq® Mounts   | ePop-Loq® Mounts   | ePop-Loq® Mounts   | Pop-Loq® Mounts   | ePop-Loq® Mounts  |
| Docking Options  |   | <br>Docking Cradle<br>Order <a href="#">1128-CRD-02-KIT</a><br><small>*Slide-on Mounts must be removed from the 1128 in order to use the Docking Cradle</small>   | <br>Docking Cradle<br>Order <a href="#">2128-CRD-03-KIT</a>  | <br>Docking Cradle<br>Order <a href="#">2128-CRD-03-KIT</a>   | <br>Docking Cradle<br>Order <a href="#">2128-CRD-02-KIT</a>   | <br>Docking Cradle<br>Order <a href="#">1166-CRD-01-KIT</a>  | <br>Docking Cradle<br>Order <a href="#">1166-CRD-01-KIT</a>  |
| Battery  | <br>L Battery  | <br>XL Battery  |  <br>XL Battery Power Handle<br><small>(order: 2102-PH-Y)</small>   |  <br>XL Battery Power Handle<br><small>(order: 2102-PH-Y)</small>  | <br>Built-in Power Handle   | <br>High Capacity Battery  | <br>High Capacity Battery  |
| Minimum operating time   | Light use*: 11.5 hrs<br>Moderate use**: 6.5 hrs<br>Heavy use***: 3 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small> | Light use*: 9 hrs<br>Moderate use**: 5 hrs<br>Heavy use***: 2.5 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small> | 11 hrs Light use* 28 hrs<br>7 hrs Moderate use* 19 hrs<br>4 hrs Heavy use* 10.5 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small> | 11 hrs Light use* 28 hrs<br>7.5 hrs Moderate use* 19 hrs<br>4 hrs Heavy use* 10.5 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small> | Light use*: 28 hrs<br>Moderate use**: 20 hrs<br>Heavy use***: 9 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small> | Light use*: 31.5 hrs<br>Moderate use**: 23.5 hrs<br>Heavy use***: 13 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small>             | Light use*: 31.5 hrs<br>Moderate use**: 24 hrs<br>Heavy use***: 15 hrs<br><small>*Light Use: Continuous RFID inventories for 20% of every 120s<br/>**Moderate Use: Continuous RFID inventories for 10% of every 30s<br/>***Heavy Use: Continuous RFID inventories for 5% of every 60s</small> |
| Tag Reads per single battery charge                            | 1 million   | 1 million  | 1 million 2.3 million  | 1 million 2.3 million  | 2.3 million  | 2.6 million   | 2.6 million   |
| Charge Time  | 2 hrs   | 2.5 hrs  | 2.5 hrs 5 hrs  | 2.5 hrs 5 hrs  | 5 hrs  | 2.5 hrs   | 2.5 hrs   |
| Country Certifications   | ETSI/Europe<br>FCC/USA<br>Brazil<br>China<br>Colombia<br>Ecuador<br>El Salvador<br>Guam<br>Guatemala<br>India<br>Kazakhstan<br>Northern<br>Mariana Islands<br>Puerto Rico<br>Russia<br>Thailand<br>Ukraine  | ETSI/Europe<br>FCC/USA<br>Australia<br>Bangladesh<br>Brazil<br>Canada<br>Chile<br>China<br>Colombia<br>Ecuador<br>El Salvador<br>Guam<br>Guatemala<br>India<br>Taiwan<br>Vietnam   | ETSI/Europe<br>FCC/USA<br>Australia<br>Bangladesh<br>Canada<br>Colombia<br>Ecuador<br>Guatemala<br>India<br>Northern<br>Mariana Islands<br>Puerto Rico<br>Singapore  | ETSI/Europe<br>FCC/USA<br>Australia<br>Bangladesh<br>Canada<br>Colombia<br>Ecuador<br>Guatemala<br>India<br>Northern<br>Mariana Islands<br>Puerto Rico   | ETSI/Europe<br>FCC/USA<br>Bangladesh<br>Ecuador<br>Colombia<br>Guam<br>Guatemala<br>India<br>Northern<br>Mariana Islands<br>Puerto Rico  | ETSI/Europe<br>FCC/USA<br>Algeria<br>Bangladesh<br>Brazil<br>Brunei<br>Canada<br>China<br>Colombia<br>Ecuador<br>El Salvador<br>Guam<br>Guatemala<br>Indonesia<br>Japan<br>Kazakhstan<br>Malaysia<br>New Zealand<br>Northern<br>Mariana Islands<br>Pakistan<br>Puerto Rico<br>Russia<br>Thailand<br>Vietnam | ETSI/Europe<br>FCC/USA<br>Bangladesh<br>Canada<br>Colombia<br>Ecuador<br>Guam<br>Guatemala<br>Northern<br>Mariana Islands<br>Puerto Rico  |
| Keyboard Support (in HID Mode)                                 | US HID Keyboard Support   | US HID Keyboard Support  | International HID Keyboard Support   | International HID Keyboard Support   | International HID Keyboard Support*  | US HID Keyboard Support   | International HID Keyboard Support  |