














Comparison of TSL® Mobile UHF RFID Readers

	 1153	 1128	 2128	 2128P	 2128L	 1166	 2166
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) <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 <small>Supports Classic, BLE & IAP2</small>	Bluetooth® 4.2 <small>Supports Classic, BLE & IAP2</small>	Bluetooth® 4.2 <small>Supports Classic, BLE & IAP2</small>	Bluetooth® 2.1	Bluetooth® 4.2 <small>Supports Classic, BLE & IAP2</small>
Apple Mfi certified	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Optional 2D barcode imager	Yes	Yes	No	Yes	No	Yes	Yes
Internal Storage	Up to 32 GB* <small>*via Micro SD card (not supplied)</small>	Up to 32 GB* <small>*via Micro SD card (not supplied)</small>	Up to 32 GB* <small>*via Micro SD card (not supplied)</small>	Up to 32 GB* <small>*via Micro SD card (not supplied)</small>	16 GB* <small>*For units manufactured in August 2020 onwards. Units manufactured before this date will be 8 GB.</small>	16 GB* <small>*For units manufactured in August 2020 onwards. Units manufactured before this date will be 4 or 8 GB.</small>	16 GB* <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 <small>*via Micro SD card (not supplied)</small>	Up to 500 million tags <small>*via Micro SD card (not supplied)</small>	Up to 500 million tags <small>*via Micro SD card (not supplied)</small>	Up to 500 million tags <small>*via Micro SD card (not supplied)</small>	Up to 250 million tags <small>*For units manufactured in August 2020 onwards.</small>	Up to 250 million tags <small>*For units manufactured in August 2020 onwards.</small>	Up to 250 million tags <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* <small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>	1.2 m* <small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>	1.2 m* <small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>	1.2 m* <small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>	1.2 m* <small>*Multiple drops to concrete: 4 ft / 1.2 m ambient, 3ft / 0.9m across the operating temperature range.</small>	1.8 m* <small>*Multiple drops to concrete: 1.8 m ambient.</small>	1.8 m* <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		 Docking Cradle* Order 1128-CRD-02-KIT <small>*Slide-on Mounts must be removed from the 1128 in order to use the Docking Cradle</small>	 Docking Cradle Order 2128-CRD-03-KIT	 Docking Cradle Order 2128-CRD-03-KIT	 Docking Cradle Order 2128-CRD-02-KIT	 Docking Cradle Order 1166-CRD-01-KIT	 Docking Cradle Order 1166-CRD-01-KIT
Battery	L Battery	XL Battery Power Handle (order: 2102-PH-Y)	XL Battery Power Handle (order: 2102-PH-Y)	XL Battery Power Handle (order: 2102-PH-Y)	Built-in Power Handle	High Capacity Battery	High Capacity Battery
Minimum operating time ¹	Light use ² : 10 hrs Moderate use ³ : 6.5 hrs Heavy use ⁴ : 2.5 hrs	6 hrs Light use ² 3.5 hrs Moderate use ³ 1.5 hrs Heavy use ⁴ 16 hrs 9 hrs 4.5 hrs	6.5 hrs Light use ² 4.5 hrs Moderate use ³ 2 hrs Heavy use ⁴ 17 hrs 11.5 hrs 6 hrs	8.5 hrs Light use ² 5 hrs Moderate use ³ 2.5 hrs Heavy use ⁴ 22.5 hrs 13 hrs 7.5 hrs	Light use ² : 22.5 hrs Moderate use ³ : 15.5 hrs Heavy use ⁴ : 7 hrs	Light use ² : 25 hrs Moderate use ³ : 16.5 hrs Heavy use ⁴ : 8 hrs	Light use ² : 25 hrs Moderate use ³ : 18 hrs Heavy use ⁴ : 10.5 hrs
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 FCC/USA Brazil China Colombia Ecuador El Salvador Guam Guatemala India Kazakhstan Northern Mariana Islands Puerto Rico Russia Thailand Ukraine	ETSI/Europe FCC/USA Australia Bangladesh Brazil Canada Chile China Colombia Ecuador El Salvador Guatemala India Northern Mariana Islands Puerto Rico South Korea Taiwan Thailand Vietnam	ETSI/Europe FCC/USA Australia Bangladesh Canada Colombia Ecuador Guam Guatemala India New Zealand Northern Mariana Islands	ETSI/Europe FCC/USA Australia Bangladesh Canada Colombia Ecuador Guam Guatemala India Northern Mariana Islands Puerto Rico	ETSI/Europe FCC/USA Bangladesh Ecuador Colombia Guam Guatemala India Northern Mariana Islands Puerto Rico	ETSI/Europe FCC/USA Algeria Bangladesh Brazil Brunei Canada China Colombia Ecuador Egypt El Salvador Guam Guatemala Indonesia Japan Kazakhstan Malaysia New Zealand Northern Mariana Islands Pakistan Puerto Rico Russia Thailand Vietnam	ETSI/Europe FCC/USA Bangladesh Canada Colombia Ecuador Guam Guatemala Northern Mariana Islands 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

¹ Figures are based on new units that have been stored, charged and operated within the Environmental Specifications stated on the Reader datasheet. 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 5s of every 60s