TECHNOLOGY SOLUTIONS UK LTD
part of **HID**

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)* *Orientation dependent	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 Supports Classic, BLE & iAP2	_Bluetooth_® 4.2 Supports Classic, BLE & iAP2	_Bluetooth_® 4.2 Supports Classic, BLE & iAP2	_Bluetooth_® 2.1	_Bluetooth_® 4.2 Supports Classic, BLE & iAP2
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* *via Micro SD card (not supplied)	Up to 32 GB* *via Micro SD card (not supplied)	Up to 32 GB* *via Micro SD card (not supplied)	Up to 32 GB* *via Micro SD card (not supplied)	16 GB* *For units manufactured in August 2020 onwards. Units manufactured before this date will be 8 GB.	16 GB* *For units manufactured in August 2020 onwards. Units manufactured before this date will be 4 or 8 GB.	16 GB* *For units manufactured in August 2020 onwards. Units manufactured before this date will be 8 GB.
No. of tags that can be stored on an SD card (Batch Data Mode)	Up to 500 million tags *via Micro SD card (not supplied)	Up to 500 million tags *via Micro SD card (not supplied)	Up to 500 million tags *via Micro SD card (not supplied)	Up to 500 million tags *via Micro SD card (not supplied)	Up to 250 million tags *For units manufactured in August 2020 onwards.	Up to 250 million tags *For units manufactured in August 2020 onwards.	Up to 250 million tags *For units manufactured in August 2020 onwards.
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* *Multiple drops to concrete: 4 ft./ 1.2 m ambient, 3ft / 0.9m across the operating temperature range.	1.2 m* *Multiple drops to concrete: 4 ft./ 1.2 m ambient, 3ft / 0.9m across the operating temperature range.	1.2 m* *Multiple drops to concrete: 4 ft./ 1.2 m ambient, 3ft / 0.9m across the operating temperature range.	1.2 m* *Multiple drops to concrete: 4 ft./ 1.2 m ambient, 3ft / 0.9m across the operating temperature range.	1.2 m* *Multiple drops to concrete: 4 ft./ 1.2 m ambient, 3ft / 0.9m across the operating temperature range.	1.8 m* *Multiple drops to concrete: 1.8 m ambient.	1.8 m* *Multiple drops to concrete: 1.8 m ambient.
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 2112-CRD-01-KIT	Docking Cradle* Order 1128-CRD-02-KIT *Slide-on Mounts must be removed from the 1128 in order to use the Docking Cradle	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	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	Light use*: 11.5 hrs Moderate use**: 6.5 hrs Heavy use***: 3 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s	Light use*: 9 hrs Moderate use**: 5 hrs Heavy use***: 2.5 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s	Light use*: 11 hrs Moderate use**: 7 hrs Heavy use***: 4 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s	Light use*: 11 hrs Moderate use**: 7.5 hrs Heavy use***: 4 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s	Light use*: 28 hrs Moderate use**: 20 hrs Heavy use***: 9 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s	Light use*: 31.5 hrs Moderate use**: 23.5 hrs Heavy use***: 13 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s	Light use*: 31.5 hrs Moderate use**: 23.5 hrs Heavy use***: 15 hrs *Light Use: Continuous RFID inventories for 2s of every 120s **Moderate Use: Continuous RFID inventories for 10s of every 30s ***Heavy Use: Continuous RFID inventories for 5% of every 60s
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 Columbia Ecuador El Salvador Guam Guatemala Northern Mariana Islands Puerto Rico Thailand	ETSI/Europe FCC/USA Australia Bangladesh Brazil Canada Chile China Columbia Ecuador El Salvador Guam Guatemala / Hong Kong Japan Malaysia Northern Mariana Islands Peru Puerto Rico Singapore South Korea Taiwan Thailand Vietnam	ETSI/Europe FCC/USA Australia Bangladesh Canada Columbia Ecuador Guam Guatemala New Zealand Northern Mariana Islands Puerto Rico / Singapore	ETSI/Europe FCC/USA Australia Bangladesh Canada Columbia Ecuador Guam Guatemala Northern Mariana Islands Puerto Rico	ETSI/Europe FCC/USA Bangladesh Ecuador Columbia Guam Guatemala Northern Mariana Islands Puerto Rico	ETSI/Europe FCC/USA Algeria Bangladesh Brazil Brunei Canada China Columbia Ecuador Egypt El Salvador Guam / Guatemala Indonesia Kazakhstan Malaysia New Zealand Northern Mariana Islands Puerto Rico Russia Thailand Vietnam	ETSI/Europe FCC/USA Bangladesh Canada Columbia Ecuador Guam Guatemala 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* *Enquire when ordering	US HID Keyboard Support	International HID Keyboard Support