



TSL Bluetooth RFID Reader Comparison Guide



Reader Model	TSL 1128	TSL 2128P	TSL 3138
Original Release Date	2013	2021	2025
Category	Standard Duty	Standard Duty	Standard Duty
Read Range	Up to 5.5 m, 18 ft	Up to 9 m, 29.5 ft	Up to 9 m, 29.5 ft
Maximum RF Output Power	Up to 32 dBm EIRP, region dependant	Up to 34 dBm EIRP, region dependant	Up to 34 dBm EIRP, region dependant
IP Rating	IP54	IP54	IP54
Drop Spec	1.2 m Multiple drops to concrete: 4 ft./1.2 m ambient, 3 ft./0.9 m across the operating temperature range.	1.2 m Multiple drops to concrete: 4 ft./1.2 m ambient, 3 ft./0.9 m across the operating temperature range.	1.2 m Multiple drops to concrete: 4 ft./1.2 m ambient, 3 ft./0.9 m across the operating temperature range.
Optional 2D Barcode Imager	Yes	Yes	Yes
Command Scan	No	No	Includes CommandScan, instantly configure the reader by scanning special barcodes
Security Features	Reader Static Authentication	Reader Static Authentication	HID OMNIKEY Advanced security features including Mutual and Dynamic Authentication
Bluetooth Version	Bluetooth 2.1	Bluetooth 4.2, Supports Classic, BLE & iAP2	Bluetooth 5.1, v5.1 compatible, v4.2 compliant, Supports Classic, BLE & iAP2
Apple MFi Certified	Yes	Yes	Yes, pending
Internal Storage	Up to 32 GB, via Micro SD card, not supplied	Up to 32 GB, via Micro SD card, not supplied	Up to 256 GB, via Micro SD card, not supplied
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 4 billion tags, via Micro SD card, not supplied
Tag De-Duplication	Software Based	Hardware based tag de-duplication	Hardware based tag de-duplication, 10X more compared to 2nd-gen readers, 500,000 compared to 50,000
On-Board Accelerometer	No	Yes	Yes
Mounting Options for a Host Device	Slide-on Mounts	ePop-Loq Mounts	ePop-Loq Mounts, New, Faster ePop-Loq mode to accommodate higher tag throughput
Docking Options	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 3138-CRD-01-KIT. For use with 8-way Power Pins option.
Battery	"XL" Battery. Power Handle, order: 2102-PH-Y	"XL" Battery. Power Handle, order: 2102-PH-Y	Power Handle included. Removable. Choice of USB-C connector, or 8-way Power Pins for use with docking cradle.
Minimum Operating Time	Light use: 6 hrs. Moderate use: 3.5 hrs. Heavy use: 1.5 hrs.	With XL Battery: Light use: 8.5 hrs. Moderate use: 5 hrs. Heavy use: 2.5 hrs. With Power Handle: Light use: 22.5 hrs. Moderate use: 13 hrs. Heavy use: 7.5 hrs.	Light use: 22.5 hrs. Moderate use: 13 hrs. Heavy use: 7.5 hrs. Preliminary estimate.
Tag Reads Per Single Battery Charge	1 million	1 million with XL Battery. 2.3 million with Power Handle.	25.2 million
Charge Time	2.5 hrs	2.5 hrs with XL Battery. 5 hrs with Power Handle.	3.3 hrs, using 30W USB-C PD charger
Keyboard Support, HID Mode	US HID Keyboard Support	International HID Keyboard Support	International HID Keyboard Support
Country Certifications	Albania, Andorra, Australia, Austria, Bangladesh, Belgium, Bosnia & Herzegovina, Brazil, licensed via ACURA, Bulgaria, Canada, Chile, China, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, El Salvador, Estonia, Falkland Islands, Finland, France, French Guiana, Georgia, Licence Required, Germany, Greece, Greenland, Guadeloupe, Guam, Guatemala, Guernsey, Hungary, Iceland, India, Ireland, Italy, Japan, licensed via Xerafy, Jersey, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, licensed via RES Malaysia, Malta, Martinique, Monaco, Montenegro, New Zealand, Netherlands, Northern Mariana Islands, Norway, Peru, Poland, Portugal, Puerto Rico, Romania, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, licensed via ID-MART or NEC, Thailand, Licence Required, United Kingdom, United States of America, USA, Vietnam	Albania, Andorra, Australia, Austria, Bangladesh, Belgium, Bosnia & Herzegovina, Brazil, licensed via ACURA, Bulgaria, Canada, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Falkland Islands, Finland, France, French Guiana, Georgia, Licence Required, Germany, Greece, Greenland, Guadeloupe, Guam, Guatemala, Guernsey, Hungary, Iceland, India, Ireland, Italy, Jersey, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Martinique, Monaco, Montenegro, Netherlands, New Zealand, Northern Mariana Islands, Norway, Peru, licensed via ACURA, Poland, Portugal, Puerto Rico, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, UAE, United Kingdom, United States of America, USA	Albania, Andorra, Austria, Bangladesh, Belgium, Bosnia & Herzegovina, Brazil, licensed via ACURA, Bulgaria, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Falkland Islands, Finland, France, French Guiana, Georgia, Licence Required, Germany, Greece, Greenland, Guadeloupe, Guam, Guatemala, Guernsey, Hungary, Iceland, India, Ireland, Italy, Jersey, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Martinique, Monaco, Montenegro, Netherlands, Northern Mariana Islands, Norway, Poland, Portugal, Puerto Rico, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom, United States of America, USA