# 1861 Handheld RFID Reader





RFID (Radio Frequency Identification) is an automated data capture technology that has been a major thrust in many industries as it allows users to identify multiple articles simultaneously without line of sight. The deployment of RFID system thus can effectively shorten the processing time, and bring higher efficiency to asset and service tracking.

While barcode labeling and RFID has become complementary solutions that marry identification at the item, case, and pallet levels, CipherLab 1861 handheld RFID reader provides you flexibility by empowering your current mobile devices dual-mode data capture capabilities to support warehouse and logistics operations, enterprise asset management, field service, and retail inventory management.



## Easy Configuration through PC or Mobile Devices

The CipherLab 1861 handheld RFID reader is supplied with multiple configurators for PC, Windows® mobile computers, CipherLab terminals, and a .NET SDK for user development, making it easy to set up related parameters, and change or edit formats.

#### Value-added Solution for Existing Mobile Devices

Unique from typical RFID readers, the CipherLab 1861 handheld RFID reader gives you extended RFID reading and writing capabilities via most *Bluetooth*® mobile devices. In addition, it can further integrate barcode capture and RFID data collection into one robust device by simply snapping your CipherLab 9600 series, CP50 series or other mobile computers onto its custom mount attached to the CipherLab 1861 handheld RFID reader. In this way, users could enjoy hassle-free one-hand operation via single unit with high work efficiency.

### Data Capture via UHF RFID Increases Adaptability

The CipherLab 1861 handheld RFID reader can read RFID tags in a distance of up to 1 m (3 ft.) and write data up to 0.5 m (1.6 ft.) away. Warehouse workers are now able to collect or edit RFID tag data attached on high-stacked pallets from ground level. Once item-level identification is required, workers can easily capture data without having to open cases one by one. The CipherLab 1861 handheld RFID reader also offers perfect solution when harsh and hazardous environments make RFID one of the only feasible identification and data collection alternatives.

#### Durable Performance, Non-Stop Productivity

Extensively tested for durability, the CipherLab 1861 handheld RFID reader is rated IP64 and able to sustain multiple drops onto concrete from 1.5 m (5 ft.), plus 1,000 tumbles at 1 m (3 ft.). It ensures continued productivity even under dusty and humid conditions, or falls onto rough surfaces by accident. Besides, the CipherLab 1861 handheld RFID reader comes with 2 batteries to give you 24/7 operation with no down time.







		1861
	CPU	ARM Cortex-M3 32 bit
Performance	Memory	4 MB
	Operating power	Rechargeable 3.7V 2500 mAh Li-ion battery
	Working hours <sup>1</sup>	10 hours
	Alert	Tri-color LEDs (red / blue / green), vibrator, beeper
Communication interface	WPAN	Bluetooth® V2.1 + EDR class 2
	Bluetooth® profile	SPP Slave, Master, HID
	USB	Virtual COM
RFID data capture	Frequency	UHF : 865 ~ 868 MHz / 902 ~ 928 MHz
	Max. read / write range <sup>2</sup>	1 m (3.3 ft.) / 0.5 m (1.6 ft.)
	Antenna type	Internal antenna
	Support tags	EPCglobal UHF Gen 2, ISO 18000-6c
	Max. output power	24 dBm
Physical characteristics	Keys	2 function keys, 1 trigger key, 1 toggle switch
	Dimensions (L x W x H)	163.5 x 85.7 x 146.5 mm
	Weight (including battery)	520 g / 18.3 oz.
User environment	Operating temperature	-10 °C to 50 °C / 14 °F to 122 °F
	Storage temperature	-30 °C to 70 °C / -22 °F to 158 °F
	Humidity (non-condensed)	Storage 5% to 95% / Operating 10% to 90%
	Impact resistance	Multiple 1.5m / 5 ft. drops onto concrete, 5 drops on each side / 1,000 tumbles at 1 m (3.3 ft.) / IP64
	Electrostatic discharge	± 15kV air discharge / ± 8kV direct discharge
	EMC regulation	CE, FCC, BSMI, NCC, SRRC, TELEC
Configuration		Can be configured through PC, Windows® mobile computers, CipherLab terminals, and a .NET SDK (CE, Mobile) via 1861 Configurator.
Accessories		3610 Bluetooth® transponder, micro USB cable, battery charger, 2 battery packs, CipherLab 9600/ CP50/ Universal and other custom mobile computer mounts on demand.
Warranty		1 year

- 1. Based on one scan per five seconds at 1-meter distance.
- 2. Actual read / write range is dependent upon a number of factors, including the specific tag used, nature of the items tagged, and presence or absence of radio interference.











CipherLab 9600 Mobile Computer Mount



CipherLab CP50 Mobile Computer Mount



Universal Mount (clamp arm width: 35 ~ 80mm)



3610 Bluetooth® Transponder

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