

# X80

## Portable RAIN RFID Reader

### HIGH PERFORMANCE PORTABLE READER

The X80 is a high-performance portable RFID/barcode reader designed for inventory management and asset tracking in environments such as warehouses, logistic, retail stores, manufacturing, etc. It is compact and durable, with an ergonomic design that provides a comfortable grip, making it easy to use for extended periods.

It is compatible with iOS/Android smartphones, tablets and also Windows PCs, offering a variety of options for users. Devices can be easily slid on using our sleds and used separately when not attached to the X80. Additionally, it is equipped with built-in Wi-Fi, Bluetooth, and USB connectivity, allowing for seamless integration with back-end systems for real-time data transfer.



The X80 offers a long-range reading distance, allowing users to read or write data to RFID tags, without the need for direct line-of-sight scanning. It also supports both 1D and 2D barcode scanning functionality, further enhancing its versatility.

By automating data collection, the X80 reduces manual work and errors, with its fast read rate making processes like inventory audits, asset tracking, and logistics quicker and more accurate—all with just the press of a button.

With impressive battery life and interchangeable batteries, the X80 can operate continuously, ensuring reliability throughout entire shifts. The optional docking charger accessory allows users to charge the X80, its device, and two additional batteries simultaneously.

X80 is based on Linux operating system, it supports C and Java applications, allowing businesses to tailor the device's interface and functionality to meet specific operational needs.

## X80 SPECIFICATIONS

### RFID CHARACTERISTICS

<b>RF Engine</b>	XEMA M87P1 module with Impinj E710 die inside
<b>Air Protocols</b>	ISO 18000-63 (EPC Class1 Gen2 v2)
<b>Frequency Range</b>	902-928 MHz (FCC Part 15.247) 865-868 MHz (ETSI EN 302 208) Japan, Taiwan, and other worldwide regions
<b>RF Power Output</b>	Up to 33 dBm
<b>RX Sensitivity</b>	< -83 dBm
<b>Fastest Read Rate</b>	> 1300 tags/s
<b>Nominal Read Range</b>	~8 m (~26.2 ft.)
<b>Number of Channels</b>	FCC: 50 hopping channels ETSI: 4 channels

### BARCODE SPECIFICATIONS

<b>Standard Engine</b>	Honeywell N6703, Standard Range
<b>Sensor Resolution</b>	1280 x 800 pixels global shutter
<b>Reading Distance</b>	517 mm / 20.3 in (10 mil C39) 414 mm / 16.3 in (15 MIL QR)
<b>Aimer</b>	Cross target red laser
<b>Illumination</b>	White LED
<b>Symbolologies</b>	<b>Linear:</b> Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data Bar <b>2D:</b> Codablock A, Codablock F, PDF417, MicroPDF417, Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code <b>Postal:</b> Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet

### ORDERING INFORMATION

P/N	Description
X80-WFBT-USNNB	RAIN RFID Portable Reader (FCC), Wifi/BT
X80-WFBT-USH1B	RAIN RFID Portable Reader (FCC), Wifi/BT, 2D
X80-C582-USNNB	RAIN RFID Portable Reader (FCC), Type-C-582
X80-C582-USH1B	RAIN RFID Portable Reader (FCC), Type-C-582, 2D
X80-C738-USNNB	RAIN RFID Portable Reader (FCC), Type-C-738
X80-C738-USH1B	RAIN RFID Portable Reader (FCC), Type-C-738, 2D
A10-X80P	Docking Charger for X80 w/ 2-Pack A20-CP50
A10-X80S	Docking Charger for X80
A20-CP50	Battery Pack, 3.6V 5000 mAh



Docking Charger



Battery Pack

### COMMUNICATION & SUPPORTED DEVICE

<b>Supported OS</b>	iOS, Android, Windows, Linux
<b>Interface</b>	USB Type-C, Wifi, and Bluetooth
<b>Supported Device</b>	Xema branded mobile computer. iPhone 16e, iPhone SE3, etc. Samsung Galaxy XCover Pro, XCover6 Pro, etc. Google Pixel 7, 7A, etc. *Please contact us for more supported devices.

### PHYSICAL & ENVIRONMENTAL CHARACTERISTIC

<b>Dimensions</b>	140 H x 78 W x 168 L (mm) 5.5 H x 3.1 W x 6.6 L (in)
<b>Weight</b>	430 gr / 15.2 oz with battery
<b>Battery</b>	Li-ion 5,000 mAh, removable
<b>Indicators</b>	4-Multicolor LEDs: Power, Mode, BT, and Wifi RFID read LED/beeper Barcode decode LED/beeper Low battery status LED
<b>Operating Temp.</b>	-20°C to 60°C / -4°F to 140°F
<b>Storage Temp.</b>	-40°C to 70°C / -40°F to 158°F
<b>Humidity</b>	5%-85% non-condensing
<b>IP Rating</b>	IP65

### ACCESSORIES

<b>Standard Accessories</b>	Type-C cable & wrist strap
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\*The phone shown are for illustration purpose only.