

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

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

BARCODE SPECIFICATIONS

Standard Engine	Honeywell N6703, Standard Range
Sensor Resolution	1280 x 800 pixels global shutter
Reading Distance	517 mm / 20.3 in (10 mil C39) 414 mm / 16.3 in (15 MIL QR)
Aimer	Cross target red laser
Illumination	White LED
Symbolologies	Linear: 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 2D: Codablock A, Codablock F, PDF417, MicroPDF417, Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code Postal: 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

COUNTRY OF ORIGIN

Made in Taiwan

COMMUNICATION & SUPPORTED DEVICE

Supported OS	iOS, Android, Windows, Linux
Interface	USB Type-C, Wifi, and Bluetooth
Supported Device	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

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

ACCESSORIES

Standard Accessories	Type-C cable & wrist strap
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Docking Charger



Battery Pack

*The phone shown are for illustration purpose only.