MODEL X80

UHF RFID/Barcode Handheld Reader

Supports GEN2X™

ONE DEVICE, ENDLESS POSSIBILITIES

The X80 is a high-performance handheld RFID/barcode reader engineered with Xema M87P1 module (Impinj E710 inside) for long-range reading distance, allowing users to read or write data to RFID tags without the need for direct line-of-sight scanning. It supports standard-range and long-range barcode scanning functionality, further enhancing its versatility for inventory management and asset tracking in environments such as warehouses, logistic, retail stores, manufacturing and more. It is compact and durable, with an ergonomic design that provides a comfortable grip, making it easy to use for extended periods.



X80 is compatible with iOS/Android smartphones/tablets as well as Linux/Windows PCs, offering a variety of options for users. Mobile devices can be easily slid on using our sleds and used independently when detached from the X80. Additionally, it is equipped with optional built-in Wi-Fi, Bluetooth, and USB connectivity, allowing for seamless integration with back-end systems for real-time data transfer.

By automating data collection, the X80 reduces manual work and minimizes errors. Its fast read rate accelerates processes such as inventory audits, asset tracking, and logistics—improving accuracy and efficiency with just the press of a button.

With high capacity and swappable batteries, the X80 can operate continuously 24/7, ensuring reliability throughout entire work shifts. The optional docking charger allows users to charge the X80, the attached iOS/Android device, and two additional batteries simultaneously.

The X80 also includes an SDK for effortless integration into iOS and Android applications. In addition, its built-in Linux operating system supports C and Java development, allowing businesses to customize the device's interface and functionality to meet specific operational needs.



Image: X80 with iPhone 16e, docking charger and batteries (iPhone, charger, and extra batteries are sold separately)

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SPECIFICATIONS

RFID CHARACTERISTICS

RF Engine	XEMA M87P1 module with Impinj E710
Air Protocols	ISO 18000-63 (EPC Class1 Gen2 v2)
Frequency Range & Certification	902~928 MHz, USA/FCC 14 CFR 15.247 865~868 MHz, EU/ETSI EN 302 208 916~921 MHz, Japan/Giteki 2-1-6-2 922~928 MHz, Taiwan/NCC LP0002 and other worldwide regions
RF Power Output	Up to 33 dBm
RX Sensitivity	<-83 dBm
Fastest Read Rate	>1,000 tags/s
Nominal Read Range	~8 m (~26.2 ft.)

BARCODE SPECIFICATIONS

Sensor Resolution	1280 x 800 pixels global shutter
Aimer	Cross target red laser
Illumination	White LED
Number of Scan	>50,000 scans/charge
Symbology	**Reading Distance** *mm [in]*
13 mil UPC	573 [22.5]
5 mil Code 39	301 [11.9]
10 mil Code 39	517 [20.3]
20 mil Code 39	800 [31.5]
15 mil Code 128	650 [25.6]
6.7 mil PDF 417	244 [9.6]
10 mil Data Matrix	297 [11.7]
15 mil QR	414 [16.3]

COMMUNICATION & SUPPORTED OS/DEVICE

Supported OS	iOS, Android, Linux, Windows
Interface	USB Type-C, WiFi, and Bluetooth
Supported Device	Apple iPhone Google Pixel A Series Samsung Galaxy XCover Series

PHYSICAL & ENVIRONMENTAL CHARACTERISTICS

Dimensions	168 L x 78 W x 140 H (mm) 6.6 L x 3.1 W x 5.5 H (in)
Weight	430 gr / 15.2 oz with battery
Battery	Li-ion 5,000 mAh, swappable
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 *(included with purchase)*

Standard Accessories	Type-C cable & wrist strap

COUNTRY OF ORIGIN

Taiwan

ORDERING INFORMATION

X80 - AAA B - CC D

AAA	OS/Device
5PH	Apple iPhone
5PX	Google Pixel A Series
7GX	Samsung Galaxy XCover Series
E61	Xema E61
LXW	Linux with Wifi/BT

B	Barcode Range
S	Standard Range
M	Medium Range, 5m
L	Long Range, 10m
R	RFID Only, No Barcode

CC	Country/Region
US	USA
EU	EU
JP	Japan
TW	Taiwan

D	Color
B	Black (Defualt)
W	White

*Example: **X80-5PHS-USB** is UHF RFID handheld reader for iPhone with standard range 2D barcode scanner for USA market. Please contact us for other models.*

ACCESSORIES *(sold separately)*

P/N	Description
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

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