

BX6100 Long–range RFID handheld terminal

Industry–leading high–speed octa–core CPU

Based on TSiMC's leading 12nm process technology, the high–speed octa–core CPU offers advanced features and exceptional performance, allowing it to run a wide range of applications at lightning speed.

Excellent RFID read/write performance and extended read range

RFID offers unobstructed indoor reading and up to 20 meters in open outdoor environments. it also supports multi–tag group reading at a read rate of 200 tags/second, enabling a complete read of 2,000 tags in approximately10 seconds,improving RFID performance by over 30%.

Large–capacity battery for longer battery life

The device's built–in 9000mAh high–capacity battery provides over 12 hours of continuous operation, meeting the requirements of long–term outdoor operation.

New–generation developed quadrifilar helical antenna for enhanced performance

This antenna features lightweight, compact size, narrow beamwidth, high gain,low standing wave patterns, excellent directional alignment, superior omnidirectional reading performance, and strong anti–interference capabilities

Application

Industrial manufacturing

Warehouse management

Laundry management

Livestock management

File management

Tool management

Product parameters

Basic Parameter

Overall size	166 × 79 × 31 ± 2mm(without the pistol grip and UHF shield)
Overall weight	660g (Device weight may vary depending on the configuration of different functional modules.)
Display sereen	Tough 5.5 in.TFT–LCD (720*1440)
Touch screen	Support capacitive pen multi–touch
Expansion slot	1 TF slot，1 PSAM,1 Sim
Interface	Type–c data interface
Indicator lamp	Charge indicator lamp
Keyboard	Front 3 menu keys ; Side 2 scan/1 volume/1 power
Camera	Front camera 5MP Rear camera 13 MP
Flashlight	Low power LED lighting emergency use
GPS	GPS(embedded A–GPS)accuracy of 10 m

Performance Parameter

CPU	Cortex A73 , 2.0GHz Octa–core
Storage	RAM:4GB ROM:64GB
Extended	Support MicroS （ max 256GB expansion ）
OS	Android 10
Data Communication	2G:GSM/GPRS/EDEG (GSM850/900/1800/1900) 3G:WCDMA(B1/B2/B4/B5/B8) 4G:LTE–FDD:B1/B2/B3/B4/B5/B7/B8/B12/B17/B20 LTE–TDD:B38/B39/B40/41F
WIFI	2.4G/5G dual band.Comp;iance with IEEE802.11a/b/g/n/ac
Bluetooth	Bluetooth 4.2

Development Environment

SDK	Handheld–Wireless Software Development Kit
Language	Java
Environment	Android Studio or Eclipse

Working Environment

Operating Temp	–20℃~50℃
Storage Temp	–20℃~70℃
Humidity	5%~95% (non–condensation)
IP rate	IP65

Battery Performance

Battery capacity	9000mAh,Rechargeable li–ion polymer,3.8V
Standby time	About 720 hours after turn off all functions
Charging time	Less than 6 hours
Working hours	More than 14 hours (once full charge)

Barcode Acquisition(optional)

Scan engine	2D barcode Scanner
Supports 2D barcodetypes	All major 1D barcode PDF417, MicroPDF417, Composite, RSS, TLC–39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode, Postal Codes,US PostNet, US Planet, UK Postal, Australian Postal,Japan Postal, Dutch Postal etc.

RFID (optional)

RFID NFC	Frequency 13.56MHz Protocol ISO14443A/B ISO15693, NFC–IP1,NFC–IP2,etc. R/w Range 0cm to 3cm
RFID UHF	Frequency 865~868MHz or 920~925MHz Protocol EPC C1 GEN2/ISO 18000–6C Antenna Gain Circular antenna(4dBi) R/w Range 0 to 20m(tags and environment dependent)

Psam (optional)

Protocol	ISO7816
Baudrate	9600, 19200, 38400,43000, 56000,57600, 115200l
Slot	2 slots(maximum)

Attachment

Standard	1 Power Supply, 1 Type–c cable 1 Lithium Polymer Battery
Optional	 Cradle(Optional)

IP65