

X20 Mobile Computer

RFID PDA

The X20 Mobile Computer combines Android 14, an octa-core processor and a 38-key keypad for efficient mobile data processing. Optional long-range barcode scanning up to 15 metres and DPM code recognition support precise data capture, while NFC, 4G connectivity, dual-band Wi-Fi and Bluetooth enable reliable communication. A replaceable 6,200 mAh battery with integrated backup battery supports extended daily operation.



4G



Bluetooth 5



Android 14


1D/2D barcode
scanning engine

13.56 MHz
NFC reader


IP65



Wi-Fi



GNSS



Physical Parameters

Size	202.4 × 77.8 × 41.6 mm
Weight	420 g, including battery
Display	4-inch TFT display Resolution: 800 × 480 pixels
Touch Panel	Capacitive touchscreen Supports operation with wet hands or gloved fingertips
Backlight	LED backlight
Power	Non-polymer lithium battery: 6,200 mAh, 3.7 V Operating time: more than 8 hours Supports fast charging
Hot Swap Battery	Integrated 270 mAh backup battery
Card Slot	1 × Nano-SIM 1 × TF card, up to 128 GB
Communication Interface	USB Type-C Supports OTG
Network Connections	4G / 3G / 2G, Wi-Fi and Bluetooth
Notification	Warning tone, multi-color LED and vibration
Keyboard	38 keys
Fingerprint Reader	Optional Supports fingerprint unlocking
Audio	Microphone, loudspeaker and receiver
Physical Keys	Power button Left scan button Right scan button configurable as a user-defined key
Power Adapter	Input: 100–240 VAC Output: 12 V / 1.5 A, 9 V / 2 A or 5 V / 2 A

Performance Parameters

CPU	Octa-core processor with up to 2.0 GHz 2 × ARM Cortex-A75 at 2.0 GHz 6 × ARM Cortex-A55 at 1.8 GHz
Operating System	Android 14
Memory	4 GB RAM + 64 GB ROM Optional: 6 GB RAM + 128 GB ROM

Working Environment

Operating Temperature	–20 °C to +55 °C
Storage Temperature	–40 °C to +70 °C
Humidity	3% RH to 93% RH, non-condensing
Drop Resistance	1.2 m
Tumble Resistance	200 tumbles from 0.5 m / 1.6 ft Complies with the IEC tumble specification
Electrostatic Discharge Protection	Air discharge: ±15 kV Contact discharge: ±8 kV
Dust and Water Resistance	IP65

Data Collection

Scanning Engine	Professional barcode scanning engine
Camera	Rear camera: 8 MP, autofocus Integrated flash LED Supports flashlight mode
Supported 1D Bar-code Types	UPC/EAN, Bookland EAN UCC Coupon Code, ISSN EAN Code 128, GS1-128, ISBT 128 Code 39, Trioptic Code 39, Code 32 Code 93, Code 11, Interleaved 2 of 5 Discrete 2 of 5, Codabar, MSI Chinese 2 of 5, Korean 3 of 5 Matrix 2 of 5, Inverse 1D GS1 DataBar, Composite Codes Additional barcode types supported
Supported 2D Bar-code Types	PDF417, MicroPDF417, Data Matrix Data Matrix Inverse, MaxiCode QR Code, MicroQR, QR Inverse Aztec, Aztec Inverse, US Postnet US Planet, UK Postal, Australian Postal, Japan Postal Netherlands KIX Code, USPS 4CB / OneCode / Intelligent Mail UPS FICS Postal, Han Xin Code Additional barcode types supported

Wireless Communication

WWAN	GSM: 2 / 3 / 5 / 8 WCDMA: 1 / 2 / 5 / 8 TDS: 34 / 39, compatible TDD: 34 / 38 / 39 / 40 / 41 FDD: 1 / 2 / 3 / 5 / 7 / 8 / 20 / 26 / 28A / 28B
Wi-Fi	Frequency bands: 2.4 GHz and 5 GHz Protocols: IEEE 802.11a/b/g/n/ac Supports IEEE 802.11d/e/h/i/j/k/r/v/w
Bluetooth	Bluetooth 5
GNSS	GPS, GLONASS, BeiDou and Galileo

Internet of Things Functions

NFC	Operating frequency: 13.56 MHz Supported protocols: ISO/IEC 14443A/B, ISO/IEC 15693, MIFARE 1K/4K, MIFARE DESFire and FeliCa Reading distance: < 5 cm
Sensors	Light sensor Proximity sensor Gravity acceleration sensor Geomagnetic sensor

Others

Certifications	RoHS, SAR, CE, GMS and EAC
Standard Accessories	15 W power adapter Data cable Battery Charging adapter Battery lanyard Wrist strap
Optional Accessories	18 W fast charger Charging cradle Pistol grip

