

TC60-8781H10N

Eurasia Version 4GB + 64GB

Handheld Data Terminal Specification



Version V1.2 | Android 14 | 4G LTE | IP67 Rugged Design

Product Overview

The TC60-8781H10N is a rugged Android handheld data terminal designed for barcode data capture, mobile computing and field operations across logistics, warehousing, manufacturing, retail and asset management. It combines an MTK8781 octa-core processor, Android 14, professional 1D/2D scanning, reliable wireless connectivity and an IP67-rated industrial enclosure in a slim straight-bar form factor.

- MTK8781 octa-core platform with Android 14 native UI and GMS support.
- 4GB LPDDR4X memory and 64GB storage, expandable by MicroSD up to 1TB.
- 5.99-inch HD+ IPS display with in-cell multi-touch and fully laminated strengthened glass.
- Integrated professional 1D/2D barcode scanning module with global-shutter imaging.
- 5000mAh tool-free removable battery, IP67 rugged protection and 1.5m drop resistance.
- 4G LTE, dual-band Wi-Fi 5, Bluetooth 5.2, GNSS and NFC for field mobility.



Key Features

Rugged Mobility	IP67-rated protection, 1.5m repeated drop resistance and wide operating temperature range for demanding field environments.
High-Performance Platform	MTK8781 octa-core processor with Android 14, 4GB LPDDR4X RAM and 64GB ROM for smooth enterprise applications.
Professional Barcode Capture	Industrial-level 1D/2D scanning module, 1280 × 800 global-shutter sensor and wide barcode symbology support.
All-Day Battery Design	5000mAh removable battery, 13.5h working time and RTC backup battery for time retention during battery replacement.
Comprehensive Connectivity	4G LTE, Wi-Fi 5, Bluetooth 5.2, GNSS, NFC, USB Type-C, cradle charging pins and 8-pin expansion interface.

Application Scenarios



- Warehouse inbound/outbound scanning, picking, put-away and stocktaking.
- Logistics parcel sorting, delivery confirmation and mobile proof-of-delivery workflows.
- Manufacturing traceability, component tracking and quality inspection.
- Retail inventory counting, price verification and omni-channel store operations.

Technical Specifications

Performance	
Processor	MTK8781 octa-core processor, up to 2.2GHz; 2 × Arm Cortex-A76 up to 2.2GHz + 6 × Arm Cortex-A55 up to 2.0GHz
Operating System	Android 14, native platform UI, GMS supported
Application Adaptation	Compatible with barcode scanning assistant application
Memory	RAM: 4GB LPDDR4X @ 4266MHz
Storage	ROM: 64GB
Expansion	MicroSD up to 1TB; SDIO encrypted TF card supported
Basic Specifications	
Form Factor	Straight-bar handheld terminal
Dimensions	163 × 77 × 13.9mm, excluding local protrusions; actual product prevails
Weight	Approx. 265g including battery
Color & Surface	Black original-color injection molding; scratch-resistant textured surface
Display	5.99-inch TFT (IPS), typical brightness 500cd/m ²
Resolution	HD+, 720 × 1440

Touch Panel	In-cell multi-point capacitive touch
Battery	5000mAh (4.4V) integrated battery; tool-free removal; lithium polymer; 0V charging supported
RTC Battery	On-board button cell for time retention during battery replacement
Glass	Full lamination with 1.1mm strengthened glass cover
Housing Material	High-strength engineering plastic
Charging Time	Approx. 4.5h with 10W charger; approx. 3h with 15W fast charger
Battery Life	Standby: 168h (7 days); working time: 13.5h; approx. 9.5h with LCD brightness and volume at maximum
Audio & Vibration	Dual silicon microphones, noise reduction, audio PA, 100dB loudspeaker, vibration motor and receiver supported
USB	USB Type-C; USB 2.0 Device, OTG supported; waterproof device body
Audio Port	3.5mm headset via shared USB interface (digital headset)
Cradle Charging	2-pin charging contact × 1, 5V~2A, compatible with UC100 universal cradle
Expansion Interface	8-pin external expansion interface × 1
Side Keys	Left: scan key + volume keys × 2; Right: custom key + power key + scan key
Cameras	Front: 8MP FF fixed focus, F2.4; Rear: 13MP PDAF, F2.2
Flashlight	Flash supported, max. 1A current; flashlight function supported
Sensors	Proximity/light sensor and gravity acceleration sensor
Barcode Module	Professional 1D/2D module (D1010) supported
Card Slot	Nano SIM + Nano SIM / TF, three-in-two tray inside battery compartment
LED Indicator	Tri-color LED: low-battery slow flashing; charging red; full green; scan success green; scan failure red; Bluetooth and other notifications blue
SIM Function	Dual SIM dual standby and primary/secondary SIM switching supported
Voice Services	VoLTE, ViLTE and VoWiFi supported

Wireless Communication

Cellular Network	
Network Type	4G LTE
Eurasia Version	2G/3G/4G supported
2G Bands	GSM 850/900/1800/1900
3G Bands	WCDMA B1/2/4/5/8
4G TDD-LTE Bands	B34/38/39/40/41
4G LTE FDD Bands	B1/2/3/4/5/7/8/20/28a&b
Americas Version Reference	GSM 850/900/1800/1900; WCDMA B1/2/4/5/8; LTE B1/2/3/4/5/7/12/13/14/25/26/28a&b/30/38/40/41/66/71
Wi-Fi / GNSS / NFC / Bluetooth	
Wi-Fi	Wi-Fi 5 supported, dual-band 2.4/5.1/5.8GHz
Wi-Fi Protocols	1-stream 802.11ac/a/b/g/n; IEEE 802.11d/e/h/i/j/k/r/v compliant; Wi-Fi roaming supported
Wi-Fi Security	WPA WPA, WPA3/2 Personal, AES-CCMP, WPI-SMS4, GCMP, WPS 2.0, WAPI (hardware)
Additional Wi-Fi Features	WFA, Wi-Fi Display and Wi-Fi Hotspot 2.0 supported
GNSS	GPS / BeiDou / Galileo / GLONASS / AGPS, built-in antenna
NFC	ISO18092, ISO14443 A/B, ISO15693 and Mifare compliance
Bluetooth	BLE 5.2, Bluetooth 3.0 + HS, Bluetooth 2.1 + EDR

Environmental & Ruggedness

Operating Temperature	-20°C to 55°C
Storage Temperature	-40°C to 70°C
Humidity	5%RH to 95%RH, non-condensing
Drop Resistance	Withstands multiple drops from 1.5m to smooth concrete
Protection Rating	IP67 rugged protection: water-resistant, dust-proof and shock-resistant
ESD	Air discharge $\pm 12\text{kV}$; contact discharge $\pm 8\text{kV}$
Certifications	CE, RoHS, FCC, GMS, UN38.3, MSDS, air/sea transport certificates; CCC, SRRC & CTA, battery CCC, IP rating, military-grade testing items referenced in source specification

Barcode Scanner Specifications

Image Resolution	1280 × 800
Shutter	Global shutter
Field of View	Horizontal 39.5°, vertical 26.1°
Scan Angles	Tilt ±180°, pitch ±60°, skew ±60°
1D Symbologies	Code39, Code93, Code128, CodaBar, EAN-8/13, ITF25, UPCE, UPCA, ISBN13, PDF417, MAT25, MSI, Code11, IND25, CHINAPOST, PHARMA, GS1 and others
2D Symbologies	Data Matrix, QR, microQR, AZTEC, HANXIN, POST and others

Package & Optional Accessories

Standard Accessories	5V/2A power adapter × 1, Type-C data cable × 1
Optional Accessories	PD 18W fast charging adapter, universal single-device cradle charger, hand strap, pistol grip, screen protector, protective case.
Customization Options	Logo nameplate and cover protective film.
Packaging	Corrugated box + sleeve, leaflet manual, service guide and protective bag

Note: Product appearance, dimensions and configuration may vary slightly by production batch or customer project. Actual product shall prevail.