

# 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 <sup>2</sup>                                                 |
| Resolution             | HD+, 720 × 1440                                                                                              |

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