

5G Flagship Chip Rugged Tablet

NTC109



Product Protection

- Dustproof, waterproof, shockproof, explosion-proof



Large Battery

- 10000mAh, high-capacity battery



Configuration

- CPU MTK6877, 8-core, 2.4GHZ



Wireless network

5G: One Step Ahead



Temperature

- Withstands Extreme Temperatures:
-20 ° C to +60 ° C



Positioning

- Optional GPS, BeiDou Galileo, GLONASS



Camera

- Front camera:8MP
Rear camera:16MP



Product form

Configure	8+128G
Size /weight	Bare metal: 276.0*180.5*22.5mm/1049g With packaging accessories: 371*213*61mm/1632g
Box specifications	Quantity: 10 pcs/carton; Dimension: 38.5*33*44.5cm; Gross Weight: 17.1kg
Wall hole pitch / screw	154x71.5mm/ M3*4.5mm
Color	Black, color customizable
Screen size	10.1inch, 16:10
Resolution	IPS 1920*1200
Screen brightness	700cd/m ²
Tp touch screen	10-point touch G+G Corning Gorilla Glass 3, hardness 7H
Battery	10000mAh, 3.8v high voltage lithium battery, non-removable, battery life ≥ 10h (playing 1080P HD video, 50% brightness and 50% sound) Battery life ≥6h (playing 1080P HD video, 100% brightness and 100% sound) Supports custom large battery (20000mAh/3.8V)

System

System	Android 12
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Data collection

1D/2D scanner (custom function)	Standard version (N1) 0.3M pixels + depth of field Code 39 5mil 65~150mm + red light Reading code system: 2D: PDF417, QR Code, Micro QR, Data Matrix 1D: Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, Code 93, UC-C/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI-Plessey High-end version (N670) 1.0M pixels + depth of field Code 39 5mil 45~200mm + cross laser Read code system : 2D: QR Code, Data Matrix, PDF417, Han letter code, Dotcode 1D: UPC-A, UPC-E, EAN-8, EAN-13, ISBN, Code 128, GS1 128, ISBT 128, Code 39, Code93, Code 11, Interleaved 2 of 5, Industrial 2 of 5, Matrix 25, Standard 25, Codabar, M-SI/MSI PLESSEY, GS1 DataBar OCR: Support OCR-A, OCR-B
ID (Customisation)	Standard second-generation identity card (optional)
UHF (Customisation)	distance1: ≤3M, Service frequency 840-960MHz distance2: ≤5M, Service frequency 860-960MHz distance3: ≤15M, Service frequency 840-960MHz
LF (Customisation)	support 125kHz distance: 1-3cm
Fingerprint (Customisation)	1: Ordinary industrial fingerprint 2: Fingerprint certified by the Ministry of Public Security 3: FBI certified fingerprint
RTK High-Precision Positioning (Customisation)	Positioning Accuracy Standalone (RMS): Horizontal 1.5 m Vertical 2.5 m DGPS (RMS): Horizontal 0.4 m Vertical 0.8 m RTK (RMS): Horizontal 1 cm + 1 ppm Vertical 1.5 cm + 1 ppm

Mainboard reserved expansion interface

Extension Interface	3.3V-1A/5V-1A power supply, UART interface, interface level 3.3V, USB2.0 interface, 5V 1A power supply
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Other

Adapter	5V/3A, DC interface adapter
Accessories	Strap/Charging Dock/Stand (optional)

Explosion-proof information

Explosion-proof version (optional)	EX Class II Petrochemical Explosion-Proof, KA Class I Mining Safety Explosion-Proof, MA Class I Coal Mine Safety Explosion-Proof
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Hardware configuration

Speaker, receiver, microphone	(speaker 1W/8Ω)*2 , MIC*1 , receiver*1
CPU	MediaTek MTK6877 (Dimensity 900 Platform) : Octa-core, 2.4 GHz
RAM/ROM	8+128GB ,(optional 8+256GB,)
Gravity sensor	OK
compass	OK
Gyro	OK
Light sensor	OK
Distance sensor	OK

camera

camera	Front camera: 8MP fixed focus camera Rear camera: 16MP auto focus flash
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Buttons

Buttons	Power button*1 , Volume keys*2 (Vol+ , Vol-) Custom keys*2 (P key, F key)
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Wireless connection

WIFI	WiFi 802.11 (a/b/g/n/ac/ax) Dual-band WiFi 2.4GHz + 5.8GHz Supports WiFi 6
Bluetooth	Bluetooth 5.2 class1 transmit distance : 10m
2G/3G/4G/5G	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B5/B8 4G LTE_TDD: B34/38/39/40/41 (Optional) 4G LTE_FD- D: B1/2/3/4/5/7/8/12/13/20/25/26/28/66 5G NSA: N1/2/3/7/25/41/66/77/78/79 (10 bands) 5G SA: N1/2/3/5/7/8/12/20/25/28/38/40/41/66/77/78/79 (17 bands)
Positioning	GPS, Beidou, Galileo, GLONASS , Optional Single-System BeiDou Positioning
NFC	I ² C interface, 13.56MHZ supports 14443A/14443B/15693 and other protocols, which is consistent with the NFC application of Android phone type (The card reading area is default on the back of the fuselage and can be customized in the front)

Ports

Type -C	*1 , Type-C USB2.0 adapt OTG
Type -A	*1 , Type-A USB2.0
Earphone Jack	*1 , 3.5mm Standard Earpiece jack
TF Card	*1 , Maximum support 1TB expansion
SIM Card	*1 , Standard Micro SIM card slot
DC jack	*1 , 5.3V/3A (Plug size: 3.5mm OD / 1.35mm ID)
RJ45 jack	*1 , RJ45
POGO pin	*1 , 12Pin USB+Charge
RS232	*1 , DB9 (serial port)

Product reliability

Drop height	Meets the requirements of (GJB 150.18A-2009, GJB 150.1A-2009) and (MIL-STD-810H) for the 1.22-meter drop test
Working temperature	-20°C~60°C
Storage temperature	-30°C~70°C
Humidity	Humidity: 95% Non-Condensing
Certificates	IP68, 3C, CE, US military standard-810H certification, energy saving certification, ISO quality certification system, ROHS, three-proof salt spray test
CE-NB	YES
MIL-STD-810H	YES
CCC	YES

Product Highlights

01

HD

10.1-inch screen

IPS 1920*1200
700cd/m²

Featuring a 10-inch touchscreen with core performance tailored to practical needs: supports operation with medical rubber gloves and adapts to high-frequency use across multiple scenarios; Screen hardness $\geq 7H$ ensures scratch and wear resistance, minimising marks during prolonged use. Standard specifications include 1920 x 1200 high-definition resolution and 700 cd/m² brightness, maintaining clarity in bright light without requiring shaded operation. Flexible customisation options are available, including a 1000 cd/m² ultra-bright display for extreme sunlight conditions. An optional wet-hand touch function adapts to humid working environments.

02

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High-capacity battery

10000mAh/
3.8V

Standard configuration: 10,000mAh/3.8V high-voltage lithium battery with intelligent battery management system. Precisely regulates charge/discharge cycles to effectively prevent overcharging, over-discharging and low-temperature power depletion, extending battery cycle life. Under 1080P HD video playback conditions (50% brightness + 50% volume), battery life ≥ 10 hours. For demanding outdoor surveying operations, a bespoke 20,000mAh/3.8V high-capacity battery solution is additionally available, delivering robust power support for diverse operational requirements. Customisable explosion-proof battery configurations are also supported to meet critical emergency usage scenarios.

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Robust Design

IP68 protection

Certified to IP68 protection standards and tested for 1.2m free-fall drops, it withstands harsh environments including damp and dusty conditions. Strictly conforming to both Chinese and US military standards for product durability, it operates across an ultra-wide temperature range of -20 °C to 60 °C. Customisable explosion-proof versions are available, certified to domestic petrochemical, coal mine, and mining safety standards, alongside international ATEX and IECEx explosion-proof certifications. This ensures reliable equipment operation in extreme hazardous scenarios such as chemical plants and mines, meeting critical operational requirements and providing dependable safety support for hazardous tasks.

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Customised Services

Multiple modules available

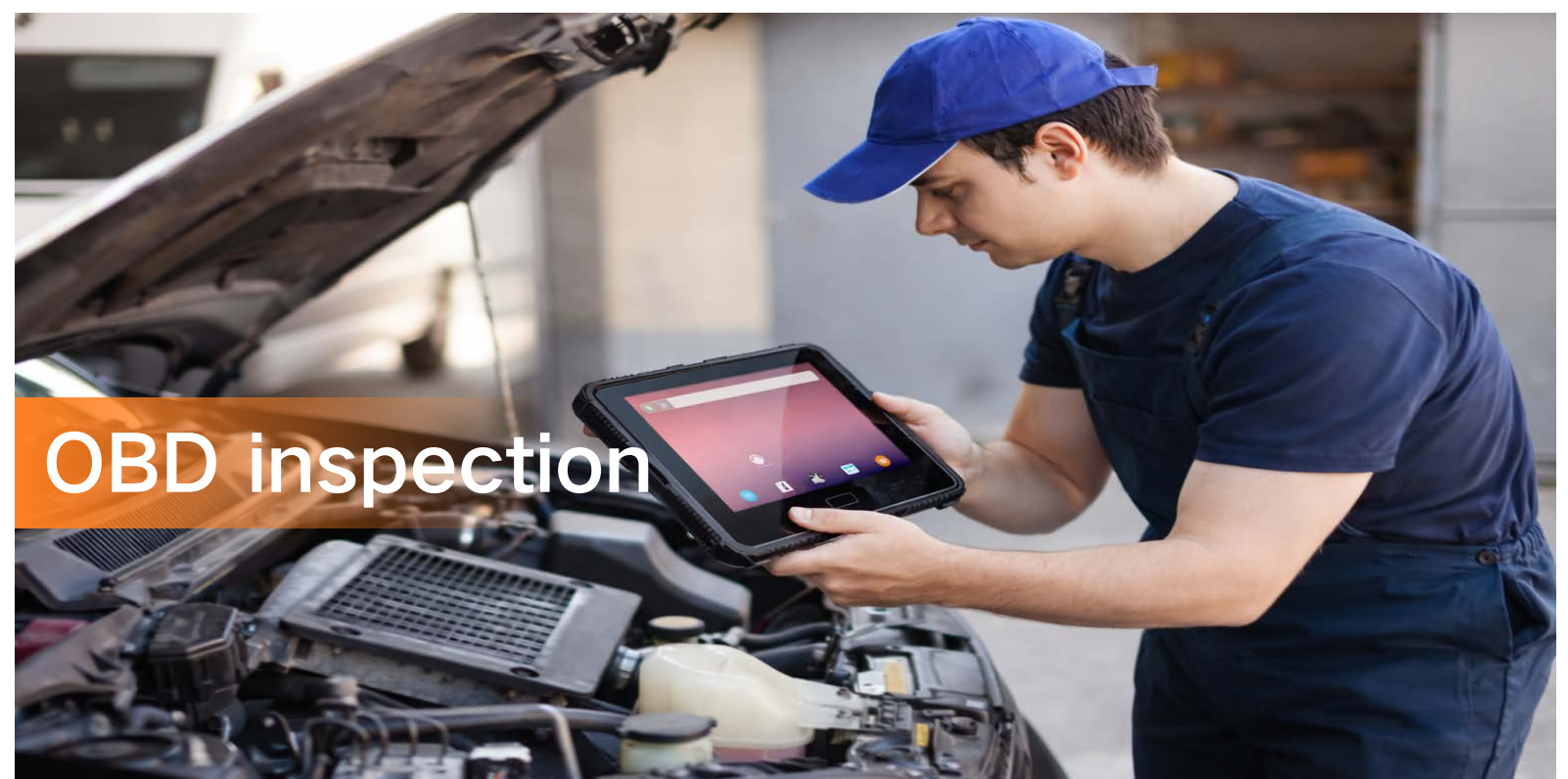
We provide professional and robust module customisation services, enabling precise tailoring of core components including 1D/2D barcode scanning, UHF/HF/ low-frequency radio frequency modules, ID card recognition modules, fingerprint capture modules, and RTK high-precision positioning modules. These solutions are deeply tailored for diverse industry scenarios including mining, manufacturing, transportation, healthcare, and surveying, precisely addressing core operational requirements such as identity verification, data collection, and location tracking. Additionally, we provide end-to-end private module installation services to resolve specific pain points in specialised scenarios.

Interface



Manual measurements are subject to error; the actual product shall prevail

Usage Scenarios



Accessories

