

All-Round Durable Rugged Tablet

W10N



Product Protection

- Dustproof, waterproof, shockproof, explosion-proof



Win10



WiFi-6



CPU



GPS



Camera



NFC
ODM



Interface
ODM



ID
ODM



1D/2D
ODM



5G net
ODM



Large Battery

- 7.6V 5550mAh High-Voltage Li-ion Battery (Non-removable)



Safety

- Built-in TPM security chip



System

- Win 10 (Included), optional Win 11 or Ubuntu 22.04.5

win10

win11

ubuntu

Temperature

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



Positioning

- GPS, GLONASS



Camera

- Front camera:5MP
Rear camera:8MP



5MP



8MP



Product form	
Configure	HD High-Brightness 8+128GB HD+ High-Brightness 8+128GB HD+ High-Brightness 16+256GB
Size /weight	Bare dimensions：283.9*189.0*24.1mm/1178g In packaging：371*213*61mm/1917g
Box specifications	Quantity: 10pcs/carton；Dimension： 38.5*33*44.5cm；Gross Weight： 20.0kg
Wall hole pitch / screw	154x71.5mm/ M3*4.5mm
Color	Black , color customizable
Screen size	10.1inch , 16:10
Resolution	IPS 1280*800 /1920*1200
Screen brightness	700cd/m²
Tp touch screen	10-point touch G+G Corning Gorilla Glass, hardness 7H
Battery	7.6V 5550mAh high-voltage lithium battery, non-removable,Battery life ≥7 hours (playing 1080p HD video at 50% brightness and 50% volume) Supports custom large battery (10000mAh/7.6V, Overall thickness: Approximately 27.04mm)

System	
System	Windows 10; optional Windows 11, Ubuntu 22.04.5

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)	ID card reader module
UHF (Customisation)	(optional) distance1：≤2M , Service frequency 840-960MHz distance2：≤5M , Service frequency 860-960MHz
NFC(ODM)	Supports 13.56 MHz protocols including 14443A, 14443B, and 15693
LF(ODM)	support 125kHz distance：1-3cm
Fingerprint (ODM)	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
Other	
Adapter	12V/4A , 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

Hardware configuration	
Speaker, microphone	(speaker 1.2W/8Ω)*2 , MIC*1
CPU	Intel Jasper Lake N5100 processor, 4 cores, 4 threads, 1.1GHz – 2.8GHz
RAM/ROM	8G+128GB /16G+256GB
TPM	Built-in TPM security chip
Gravity sensing	Support

camera	
camera	Front camera: 5MP fixed focus (custom16MP) Rear camera: 8MP auto focus 1A true flash

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

Wireless connection	
WIFI	WIFI 802.11(a/b/g/n/ac) Frequency 2.4G+5.8G Dual frequency WIFI 6
Bluetooth	BT 5.2 (BLE) class1 transmit distance:10m
3G/4G (Customised)	LTE-FDD： B1/2/3/4/5/7/8/12/13/14/18/19/20/25/26/28/66/71 LTE-TDD：B38/39/40/41 WCDMA：B1/2/4/5/6/8/19
5G (Customised)	Region:EMEA,Australia,Japan,Korea 5G SA&NSA: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N71/N77/N78/N79 LTE-FDD:B1/B3/B5/B7/B8/B18/B19/B20/B28/B32 LTE-TDD:B34/B38/B39/B40/B41/B42 WCDMA:B1/B5/B8 Region:China 5G SA&NSA: N1/N28/N41/N78/N79 LTE-FDD:B1/B3/B5/B8/B28 LTE-TDD:B34/B38/B39/B40/B41 WCDMA:B1/B8 Region: North America 5G NR： N2/N5/N7/N12/N13/N14/N25/N38/N41/N48/N66/N71/N77/N78 LTE-FDD:B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B66/B71 LTE-TDD:B38/B41/B42/B43/B48 WCDMA:B2/B4/B5
Positioning	GPS, Beidou, Galileo, GLONASS , Optional Single-System BeiDou Positioning

Ports	
Type -C	*1 , USB3.0 Support PD charging
Type -A	*1 , USB3.0
Earphone Jack	*1 , 3.5mm Standard Earpiece jack
TF Card	*1 , Maximum support 256GB expansion
SIM Card	*1 , Standard Micro SIM card slot
HDMI	*1 , micro HDMI
DC jack	*1 , 5V/3A 3.5mm
POGO pin	*1 , 12Pin USB+Charge
RJ45 jack	*1 , 100M
DB9	*1 , RS232

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℃~60℃ (Custom-30℃~60℃)
Storage temperature	-30℃~70℃ (Custom-40℃~70℃)
Humidity	Humidity: 95% Non-Condensing
Certificates	IP68, CE, RoHS, FCC, ATEX, Explosion-Proof Cert. (Class II, Group C), KA Mine Safety, MA Coal Mine Safety

Product Highlights

01

HD

High-Res Bright Displa Outdoor Strong Visibility

10.1-inch IPS 1280*800
Optional 1920*1200

The 10.1-inch IPS panel comes standard at 1280*800, with an optional 1920*1200 HD version; 700cd/m² brightness stays clearly readable under direct sunlight. Medical rubber glove touch is supported for accurate operation on industrial sites, and wet-hand touch is available as a custom option for rainy conditions. The G+G structure with AF anti-fingerprint coating and ≥7H hardness resists scratches for long-term use. Responsive 10-point touch keeps outdoor inspections and warehouse inventory clear and stable, flexibly adapting to diverse work environments.

02

Quad-Core Power Win10 Smooth

N5100 Quad-Core 8+128GB
Optional 4G/5G

Powered by the Intel N5100 quad-core 4-thread processor (1.1-2.8GHz) with Windows 10, multitasking runs smoothly without lag; Windows 11 and Ubuntu 22.04.5 optional. The 10.1-inch display provides ample space for multi-window dispatching and data visualization. Standard 8GB+128GB, optional 16GB+256GB, handles video backhaul and cloud collaboration. Optional 4G/5G modules keep field inspections and vehicle operations online. Built-in TPM security chip, dual-band WiFi 6 and Bluetooth 5.2, plus GPS and GLONASS positioning with optional single BeiDou for reliable field work.

03

Triple-Proof+Explosion-Proof Harsh Conditions No Fear

IP68 Optional EX
1.22m Drop -20 °C~60 °C

IP68 dust-tight and waterproof, MIL-STD-810H certified for 1.22m drops, with optional EX Class II petrochemical explosion-proof certification for compliant use in petrochemical plants and oil-gas pipelines; optional KA mining and MA coal safety certifications for underground access. The -20 °C to 60 °C wide temperature range ensures instant startup in harsh weather, with -30 °C low-temperature customization for extreme cold. Reinforced corners cushion impacts, sealing rings keep out mud and sand, and salt-spray testing is passed. Built rugged for reliable on-site work.

04

Industrial Full Interface Plug and Play

Type-C+USB3.0+RS232+Micro HDMI+RJ45

Full industrial interfaces: RJ45 Ethernet connects to industrial networks; Type-C supports PD charging; USB3.0 connects flash drives, keyboards and mice at high speed; Micro HDMI extends to large screens; RS232 links legacy instruments and sensors; the 12-pin POGO PIN dock handles charging and expansion; the 3.5mm jack supports voice intercom; TF expansion reaches 1TB. The compact layout stays unobstructed in one-handed use. Paired with optional 2D scanning, fingerprint, NFC, ID card and UHF modules, it forms an integrated data-collection and device-control terminal.

Interface



Usage Scenarios



Exploration Surveying



Oilfield extraction



Smart Manufacturing



Medical cold chain



OBD inspection



Emergency rescue

Accessories

2-Point Hand Strap(Standard)



4-Point Hand Strap(Optional)



Hand Carrier(Optional)



Shoulder Strap(Optional)



Capacitive Stylus(Optional)



Charging Dock(Optional)



Leather Case(Optional)



Vehicle Charger(Optional)



Backplate Mount(Optional)



Back-Clip Mount(Optional)



Vehicle Dock(Optional)



Desktop bracket(optional)



Tempered Glass Protector(Optional)



Waterproof Carrying Case(Optional)



Crossbody Bag(Optional)

