

8" Rugged Windows/Ubuntu Tablet

W80N



Product Protection

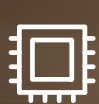
- Dustproof, waterproof, shockproof, explosion-proof



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 22.04.6

win10

win11

ubuntu®

Temperature

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



Positioning

- Supports 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：232.2*151.3*24.5mm/834g In packaging：322*172*61mm/1429g
Box specifications	Quantity: 10pcs/carton；Dimension： 34*32.5*36.5cm；Gross Weight： 14.9kg
Wall hole pitch / screw	180x64mm/ M3*4.5mm
Color	Black , color customizable
Screen size	8 inch , 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 38.3 mm)

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 1W/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 , Type-C USB3.0 Support PD charging
Type -A	*1 , Type-A 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

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, 3C, CE, US military standard-810H certification,energy saving certification, ISO quality certification system, ROHS, three-proof salt spray test

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Product Highlights

01

HD

Highly powerful

4-core
4-wire

The W80N features an Intel Jasper Lake N5100 processor, delivering robust computing power with 4 cores and 4 threads. Operating at a frequency range from 1.1GHz to 2.8GHz, it effortlessly handles diverse complex tasks. Regarding storage, it offers multiple configuration options including standard high-brightness 8 + 128GB, high-brightness 8 + 128GB, and high-brightness 16 + 256GB, fully catering to diverse user storage capacity requirements. Concurrently, the integrated TPM security chip safeguards data integrity, while the gravity sensor functionality further enhances the user experience. System support includes Windows 10, with optional Windows 11 or Ubuntu 22.04.5, catering to diverse software ecosystems and usage scenarios.

02

Battery icon

High-capacity battery

5500mAh/
7.6V

Battery life remains a crucial metric for mobile devices. The W80N features a 7.6V 5550mAh high-voltage lithium battery, delivering ≥7 hours of continuous operation when playing 1080p HD video at 50% brightness and 50% volume. This performance meets the demands of extended daily usage. Furthermore, this tablet supports a customisable 10,000mAh/7.6V high-capacity battery solution, offering greater flexibility for users with heightened battery life requirements. This ensures users need not worry about running out of power in scenarios such as outdoor activities.

03

Hammer icon

Robust Design

IP68 protection

Meets the 1.22-metre drop test requirements of standards GJB 150.18A-2009, GJB 150.1A-2009, and MIL-STD-810H, capable of withstanding accidental impact from falls. Its operating temperature range is -20 °C to 60 °C, customisable to -30 °C to 60 °C, with a storage temperature range of -30 °C to 70 °C, customisable to -40 °C to 70 °C, making it suitable for diverse extreme environments. Furthermore, it boasts an IP68 protection rating, offering effective dust and water resistance. It has also passed multiple authoritative certifications including 3C, CE, MIL-STD-810H, energy efficiency certification, ISO quality certification systems, ROHS, and triple-proof salt spray testing, ensuring reliable quality.

04

Touch icon

Exceptionally tactile

8-point touch
Hardness ≥7H

The W80N features a 8-inch 16:10 screen with IPS resolution options of 1280 × 800 or 1920 × 1200, delivering crisp, detailed visuals. With a high brightness of 700 cd/m², it ensures outstanding display performance across all lighting conditions. The TP touchscreen supports 10-point touch with a hardness rating of ≥7H, offering excellent wear resistance. It also supports operation with medical rubber gloves, making it highly suitable for professionals in specialised sectors such as healthcare. Additionally, a wet-hand touchscreen function can be customised to accommodate more complex operating environments.

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Interface



» Usage Scenarios



Exploration Surveying



Oilfield extraction



Smart Manufacturing



Medical cold chain



OBD inspection



Emergency rescue

» Accessories



Two-point harness (optional)



Two-point carry handle (optional)



Vehicle mount (optional)



Leather Case (optional)



Crossbody bag (optional)



Four-point harness (optional)



Charging dock (optional)