

NEWAY

7^{inch} IP67 Rugged Tablet



N78

This rugged Tablet combine advanced computing power with 7" hardened displays to provide a modular solution that enables easy customization and simplified upgrading while reducing maintenance costs. It is designed for use in monitoring and controlling processes in industries or fleets obligated to meet high stability standards.



800 nits



Integrated Cable



Removable Battery



IP67 Rating



ISO7637-2



MIL-STD-810G



Android 9.0

Industrial Grade For iMX.8

The i.MX 8M Mini is embedded multicore applications processor built using advanced process technology, providing more speed and improved power efficiency. With industrial level qualification and backed by longevity program, the i.MX 8M Mini may be used in any general purpose industrial and fleet management application.



Operating System

Android 9.0



i.MX 8M Mini

i.MX 8M Mini Cortex-A53 1.6GHz Quad-core



Memory

RAM / ROM: 2GB+16GB or 4GB+64GB



WiFi & Bluetooth

WiFi: IEEE 802.11 a/b/g/n/ac; 2.4GHz & 5GHz
Bluetooth: 5.0, 2402MHz-2480MHz



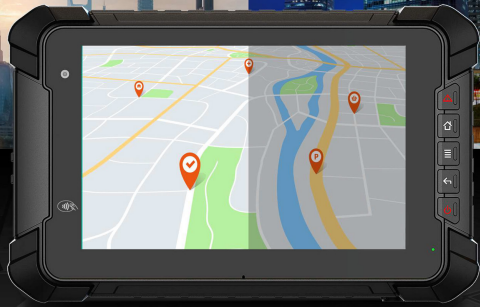
Cellular Network

LTE, DC-HSPA+, WCDMA, GSM



GNSS

GPS, GLONASS



Diversified Built-In Sensors

This 7" tablet has a wide range of built-in sensors to assist the device in various operations, to ensure data collection or to fulfill certain purposes. For example, light sensor, proximity sensor, gyroscope sensor, compass and so on.



Light Sensor

Auto dimming, screen brightness adjusts automatically with light conditions.



Proximity Sensor

Used to measure the distance of external objects from the device.



Gyroscope Sensor

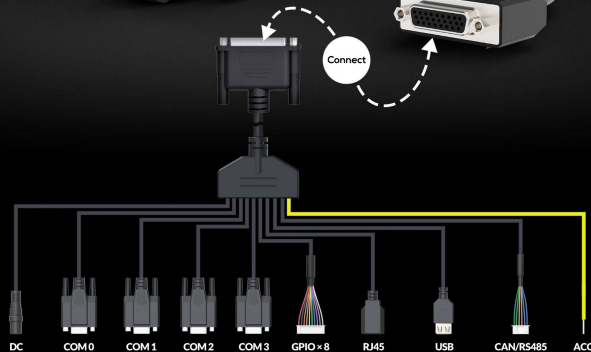
To calculate the angle of rotation, this is mostly used for navigation.



Accelerometer Sensor

It is used to measure acceleration due to moving. Sense the current state of screen.

Extension Interfaces



DC: DC 9-36V Power (DC 11-36V with battery)

COM 0: Bluetooth or RS232 are optional

COM 1: RS232

COM 2: GNSS (External) or RS232 are optional

COM 3: RS232/RS485/RS422

(COM 3 fails when RS485/RS422 is available)

GPIO: Each cable can be customized for input or output

RJ45: LAN 1000M

USB: USB 2.0 host

CAN: Integrated CAN × 1 by default, Support up to CAN × 2

RS485: COM 3 fails when RS485 is chosen

ACC: ACC connection cable are optional

IP 67 Rating

Rugged Shell

MIL-STD-810G certified, rugged, drop-resistant design with IP67 dust and water proof rating throughout the shell to maximise the life of device.



Edge Protection

Silicone protects the edges and corners to reduce impact of drops.



Interfaces Cover

With dust and water resistant interface covers.

Removable

Battery (Optional)

The tablet can be optionally supplied with a 3500mAh built-in battery, which can also be removed when the battery is not used for a long period of time.



Optional Power

Optional 3500mAh removable battery / DC 2-30V power supply



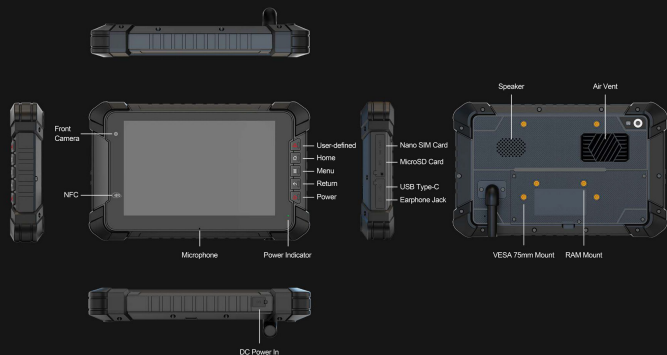
Power

Protection ISO7637-2

An ISO7637-2 power supply protection chip is installed to prevent damage to the device caused by excessive current and to increase its service life.

Applications

This tablet is suitable for very complex or harsh conditions of applications. For instance, taxi, farming, mining, oil&gas, truck and so on.



*Tip: Actual functionality is subject to final negotiation.

Specifications

| | | | |
|----------------------|-----------------------------|--|------------------------------|
| SYSTEM | CPU | NXP i.MX 8M Mini, ARM® Cortex®-A53 Quad-Core 1.6GHz processor | |
| | GPU | 3D GPU (1 × shader, OpenGL® ES 2.0), 2D GPU | |
| DISPLAY | OS | Android 9.0 / Linux Debian 10 | |
| | RAM+ROM | 2GB LPDDR4+16GB Flash or 4GB LPDDR4+64GB Flash are optional | |
| | Video Decode | 1080p60 (H.265, VP9, H.264, VP8) | |
| | Video Encode | 1080p60 (H.264) | |
| | LCD | 7 inch IPS, 1280 × 800 resolution, 800 nit | |
| INTERFACES | Touch | Capacitive touch screen | |
| | LAN | 1000M | |
| | GPIO | × 8 (Software freely define input and output) | |
| | COM | RS232 × 4; or RS232 × 3 + RS485/RS422 × 1; The optional Bluetooth and external GPS will each occupy an RS232 port. | |
| | Nano SIM Card Slot | × 1 | |
| | MicroSD Card Slot | × 1 | |
| | USB | USB Type-C OTG × 1, USB2.0 Host × 1 | |
| | Earphone Jack | 3.5mm | |
| | CAN | × 2 (Integrated CAN × 1 by default, CAN × 2 are optional) | |
| | Microphone | Built-in | |
| OPTIONAL FUNCTIONS | Cellular Network | Optional, 3G / 4G | |
| | WiFi | Optional, IEEE 802.11 a/b/g/n/ac; 2.4GHz / 5GHz | |
| | Bluetooth | Optional, 5.0 | |
| | GNSS | Optional, Built-in or external | |
| | NFC | Optional | |
| | ACC | Optional | |
| | Camera | Optional, 5.0MP (Front) | |
| POWER | Sensors | Light sensor; Proximity sensor; Gyroscope & accelerometer; Compass. | |
| | Power Supply | DC 9-36V (ISO 7637-II compliant) / DC 11-36V with built-in battery | |
| | Power Consumption | ≤ 10W (≤ 18W with built-in battery) | |
| | Battery (optional) | Built-in 3500mAh, working time 2-3h | |
| | Speaker | × 1 | |
| OTHER | Dimension | 221 × 139.7 × 29.5 mm | |
| | Weight | 910g | |
| | Environment | Dust resistance test: | IP6x |
| | | Water resistance test: | IPx7 |
| | | Operating temperature: | -20°C ~ 60°C (-4°F ~ 149°F); |
| | | Built-in battery: | 0°C ~ 50°C (32°F ~ 122°F) |
| Storage temperature: | -20°C ~ 70°C (-4°F ~ 158°F) | | |

Accessories

STANDARD



OPTIONAL

neway®

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