



**neway**<sup>®</sup>

MODEL NO.:  
**N71 PRO**

# 7" MOBILE DATA TERMINAL

Mobile data terminal solutions for fleet management, data transmission and navigation

- i.MX 8M Mini
- Rich interfaces
- IP64 Rating
- Capacitive Touch
- 4G / WiFi / Bluetooth / GNSS
- Android 9.0
- Linux Debian 10



## Automotive Grade for i.MX 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.

**OS Support**  
Android 9.0 / Linux Debian 10

**CPU**  
i.MX 8M Mini Cortex-A53 1.6GHz quad-core / Cortex-M4 core 400MHz

**GPU**  
3D GPU (1 x shader, OpenGL ES 2.0), 2D GPU

**RAM / ROM**  
RAM / ROM: 2GB+16GB or 4GB+32GB

**Touch**  
7" multi points capacitive touch screen

**Interfaces**  
DC, COM, GPIO, CAN, LAN, USB, Micro SD card, SIM card, Earphone jack...

**Mounting**  
75mm VESA mounting

**Power**  
Without battery: DC 10 - 36V; Built-in battery: DC 11 - 36V

**Bluetooth**  
Bluetooth 5.0 2402MHz-2480MHz

**Wi-Fi**  
IEEE 802.11a/b/g/n/ac, 2.4GHz & 5GHz

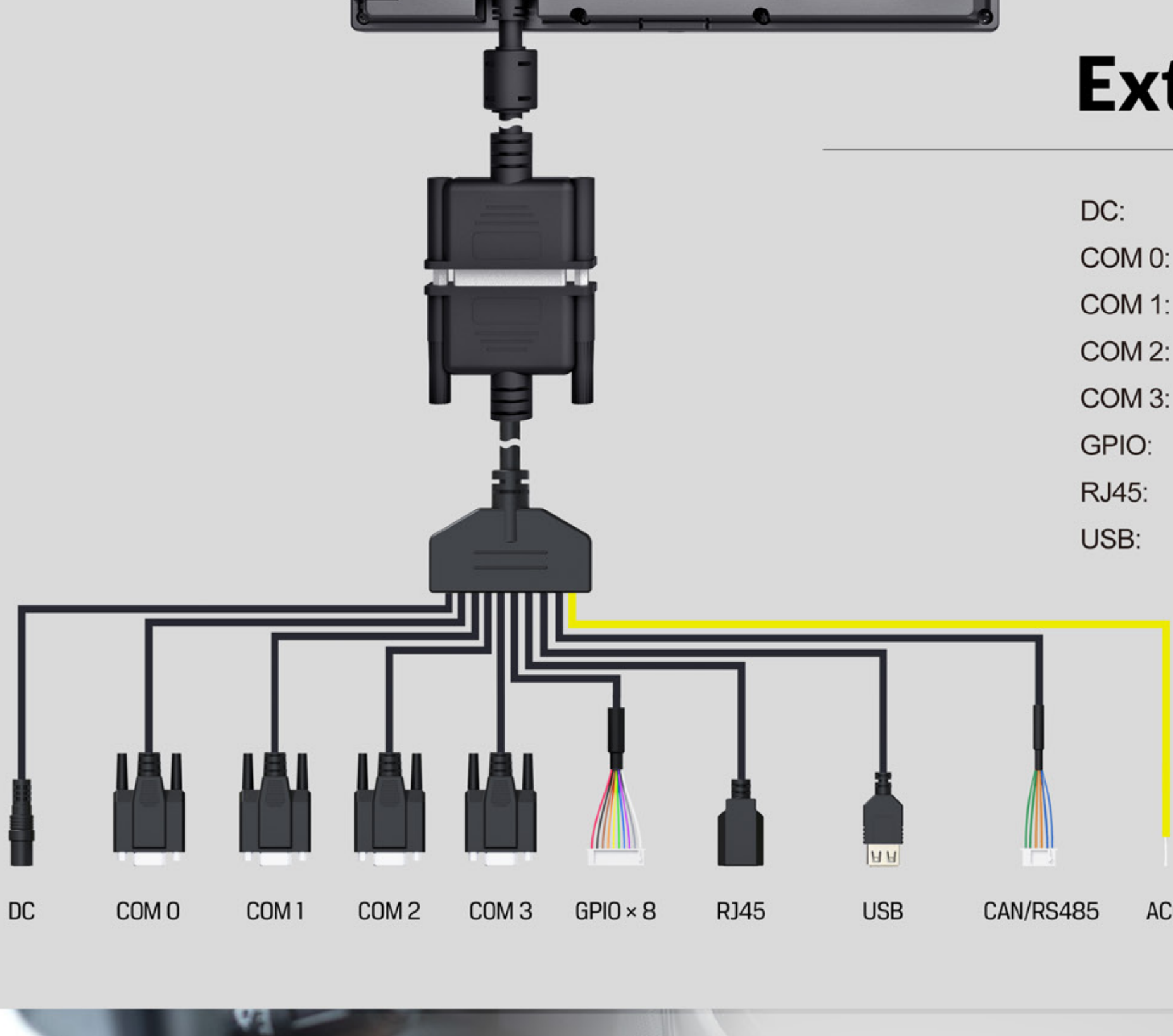
**Cellular Network**  
LTE, DC-HSPA+, WCDMA, GSM

**GNSS**  
GPS, GLONASS



## IP 64 Rating

It is designed to carry IP64 rating of protection which offer complete protection against particles and dust, and a good level of protection against water, up to water spray and light rain against ABS plastic housing from any direction.



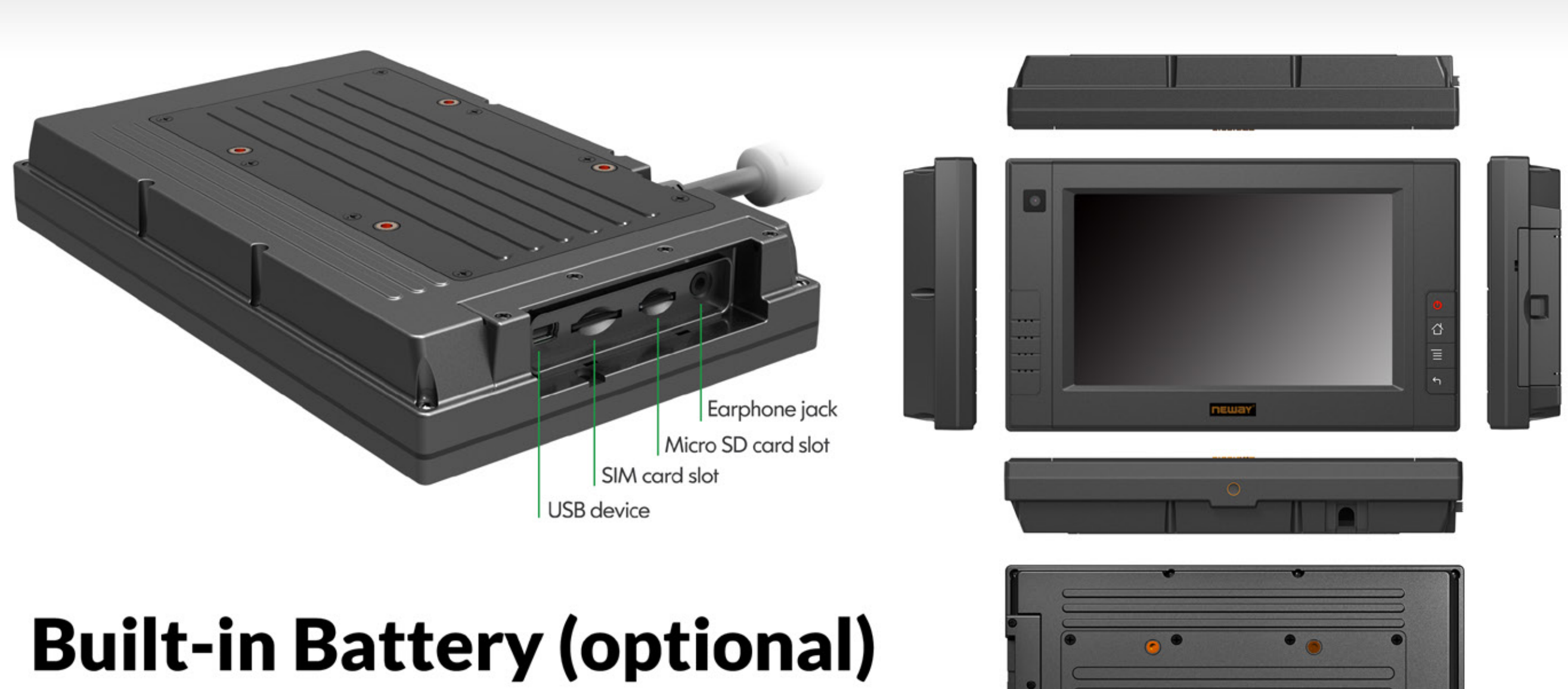
## Extension Interfaces

- DC: DC 10-36V Power (DC 11-36V with battery)
- COM 0: Bluetooth or RS232 are optional
- COM 1: RS232
- COM 2: GNSS (Built-in / External) or RS232 are optional
- COM 3: RS232 (COM 3 fails when RS485 is available)
- GPIO: Each cable can be customized for input or output
- RJ45: LAN 1000M
- USB: USB 2.0 host
- CAN: Integrated CAN x 1 by default, CAN x 2 are optional
- RS485: COM 3 fails when RS485 is chosen
- ACC: ACC connection cable are optional



## Diversified Functions

Abundant extended modules, which makes the device much powerful, for example, ACC, CAN, GNSS, sensors, bluetooth, Wifi, 4G and camera. We are committed to building a tablet pc that fits the solutions of every team so that all hardware can be customized to meet the best needs or cost savings!



## Built-in Battery (optional)

An optional 2200mAh battery is available.

- Do not expose the device to temperatures above 40°C to avoid battery damage.

| SPECIFICATION             |  |
|---------------------------|--|
| <b>SYSTEM</b>             |  |
| CPU                       | NXP i.MX 8M Mini, ARM® Cortex-A53 Quad-Core 1.6GHz processor<br>ARM® Cortex-M4 core 400MHz   |
| GPU                       | 3D GPU (1 x shader, OpenGL ES 2.0), 2D GPU   |
| OS                        | Android 9.0 / Linux Debian 10  |
| RAM+ROM                   | 2GB LPDDR4+16GB Flash or 4GB LPDDR4+32GB Flash are optional  |
| Video Decode              | 1080p60 (H.265, VP9, H.264, VP8)   |
| Video Encode              | 1080p60 (H.264)  |
| Sensors                   | Gyroscope & accelerometer, Compass.  |
| <b>DISPLAY</b>            |  |
| LCD                       | 7 inch IPS, 800 x 480 resolution, 450 nits   |
| Touch                     | Capacitive touch screen  |
| <b>INTERFACES</b>         |  |
| LAN                       | 1000M  |
| GPIO                      | x 8 (Software freely define input and output)  |
| COM                       | RS232 x 4;<br>or RS232 x 3 + RS485 x 1;<br>The optional Bluetooth and GPS will each occupy an RS232 port.  |
| SIM Card                  | x 1  |
| SD Card                   | x 1  |
| USB                       | USB 2.0 Device x 1, USB 2.0 Host x 1   |
| Earphone Jack             | 3.5mm  |
| <b>OPTIONAL FUNCTIONS</b> |  |
| CAN                       | x 2 (Integrated CAN x 1 by default, CAN x 2 are optional)  |
| Cellular Network          | 3G / 4G  |
| WiFi                      | IEEE 802.11 a/b/g/n/ac, 2.4GHz / 5GHz  |
| Bluetooth                 | 5.0  |
| GNSS                      | Built-in or external   |
| ACC                       | x 1  |
| Camera                    | 5.0MP(Front)   |
| Microphone                | Built-in Microphone  |
| <b>POWER</b>              |  |
| Power Supply              | DC 10-36V (ISO 7637-II compliant), DC 11-36V with built-in battery   |
| Power Consumption         | ≤ 10W  |
| Battery (optional)        | Built-in 2200mAh   |
| <b>OTHERS</b>             |  |
| Speaker                   | x 1  |
| Dimension                 | 220 x 132 x 36.5 mm  |
| Weight                    | 740g   |
| Environment               | Dust resistance test: IP6x<br>Water resistance test: IPx4<br>Operating temperature: -10°C ~ 65°C (14°F ~ 149°F); Built-in battery: 0°C ~ 40°C (32°F ~ 104°F)<br>Storage temperature: -20°C ~ 70°C (-4°F ~ 158°F) |

## Accessories



**neway**<sup>®</sup>

QUANZHOU NEWAY INDUSTRIAL LIMITED  
Tel: +86-595-22519926 / Fax: +86-595-22519925  
Email: info@neway.me / Web: www.neway.me