# EMBEDDED
# INDUSTRIAL PANEL PC

## N701 Pro

The Panel PC 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 production processes in industries obligated to meet high stability standards.

- 800NITS — 800 nits High Brightness
- Multi-point Touch
- PROTECTION — Metal Housing
- ISO 7637-2
- Android 9.0 / LInux Debian 10


## Industrial 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 applications.

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

### OS
Android 9.0 / Linux Debian 10

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

### Bluetooth
Bluetooth 5.0 2402MHz ~ 2480MHz
(When Bluetooth is selected, One RS232 is unavailable)

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

### GNSS
GPS, GLONASS

* Tip: Wi-fi, Bluetooth, Cellular Network and GNSS are optional wireless functions.


# Flexible I/O Interfaces

Panel PC is equipped with 2×USB host ports, 1×USB Type-C port, 2×CAN, 2×LAN ports, 3×RS232 ports, 1×RS485/RS422 port and 8×GPIO to connect seamlessly with your application.

### SIM Card Slot

① SIM card×1.

### Micro SD Card Slot

② Micro SD card×1, support up to 512GB.

### USB Ports

③ USB Type-C device×1;
⑥ USB Host×2.

### Serial Ports (4 options)

④ 1. RS232×4 2. RS232×3 + RS485×1
3. RS232×3 + RS422×1 4. RS232×2 + RS485×2
When optional Bluetooth is selected, a RS232 is unavailable.

### CAN/GPIO

⑤ Default CAN×1, Optional extra CAN×1;
GPIO×8, software freely define input and output.

### LAN Ports (PoE)

⑦ WAN 1000M×1 (PoE as option);
LAN 100M×1.

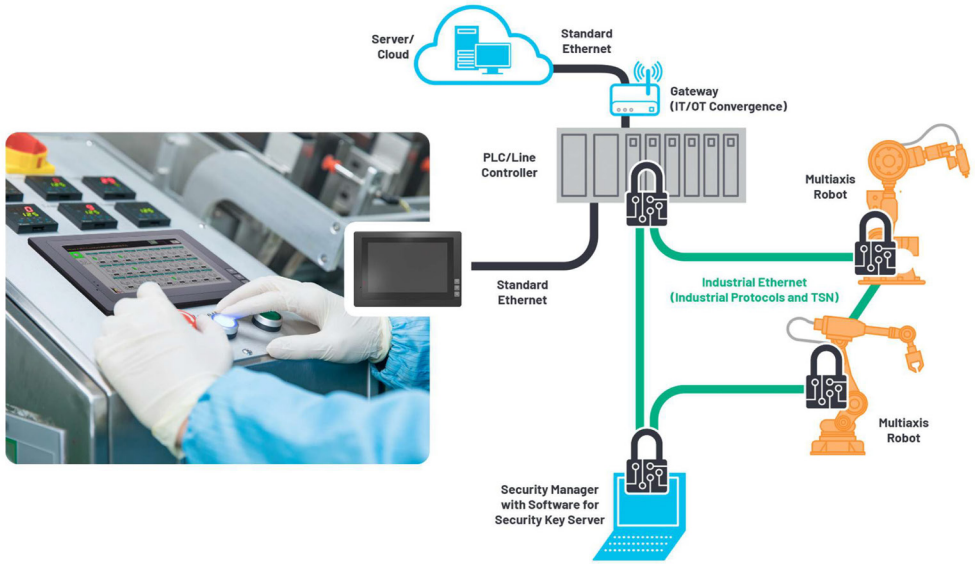
### Earphone Jack

⑧ Stereo Audio Output (3.5mm)×1.

### Power Supply

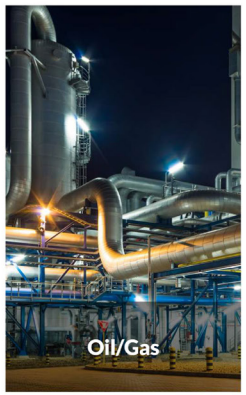
⑨ 3-Pin Terminal Block, DC 8-36V.

# Industrial HMI

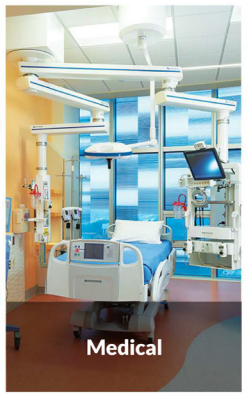


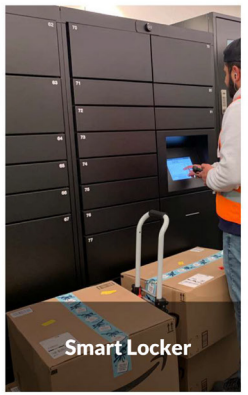

## HMI Applications

Due to increasingly developed world of industrial automation, HMIs are used in a wide range of applications. As the controlling and monitoring core of automated processes, stability, efficiency and environmental adaptability are particularly important. Therefore, it is adapted to different scenarios.



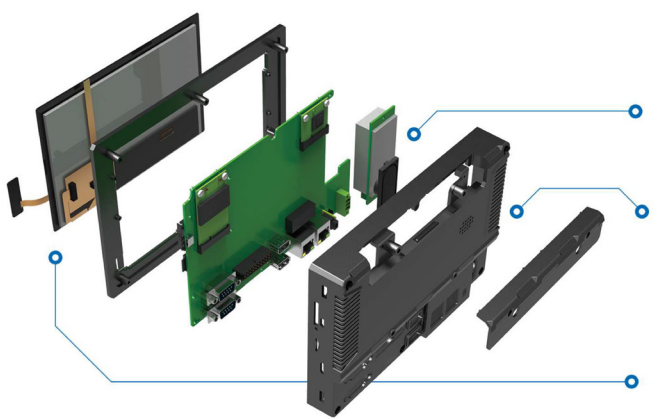




# Specification

| | | |
|---|---|---|
| SYSTEM | CPU | NXP i.MX 8M Mini Cortex®-A53 1.6GHz Quad-core processor |
| | OS | Android 9.0 / Linux Debian 10 |
| | RAM + ROM | 2GB LPDDR4 (4GB is optional) + 16GB Flash (64GB is optional) |
| | GPU | 3D GPU (1×shader, OpenGL® ES2.0), 2D GPU |
| | Sensors | Gyroscope & accelerometer |
| DISPLAY | LCD | 7",1280×800, 800 nits, 170°/170° viewing angle |
| | Touch Screen | Multi-point capacitive touch screen |
| INTERFACES | LAN | 1000M×1 (PoE is optional, 25W), 100M×1 |
| | GPIO | ×8 (Software freely define input and output) |
| | CAN | Default CAN Bus 2.0B×1, optional extra CAN Bus 2.0B×1 |
| | COM (4 options) | 1. RS232×4 |
| | | 2. RS232×3 + RS485×1 or 3. RS232×3 + RS422×1 |
| | | 4. RS232×2 + RS485×2 |
| | | When optional Bluetooth is selected, a RS232 is unavailable |
| | SIM Slot | ×1 |
| | Micro SD Card Slot | ×1, support up to 512GB |
| | USB | USB host×2, USB Type-C device×1 |
| | Earphone Jack | 3.5mm |
| OPTIONAL FUNCTION | Cellular Network | 3G/4G (LTE, DC-HSPA+, WCDMA, GSM) |
| | Wi-Fi | 802.11a/b/g/n/ac, 2.4GHZ/5GHZ |
| | Bluetooth | Bluetooth 5.0, 2402MHz~2480MHz |
| | GNSS | GPS, GLONASS |
| POWER | Power Supply | DC 8~36V |
| | Power Consumption | ≤12.5W (≤2.5W when standby) |
| OTHERS | Speaker | ×1 |
| | Dimension | 206mm×144mm×31mm |
| | Weight | 790g |
| | Environment | Operating Temp: -20°C~60°C (-4°F~140°F) |
| | | Storage Temp: -30°C~70°C (-22°F~158°F) |



### PCB BOARD
8 Layers PCB with 1.60mm Thickness.

### ALUMINUM DIE CASTING
Aluminum Alloy
Strong, Rugged, Light, Unibody and Shielding

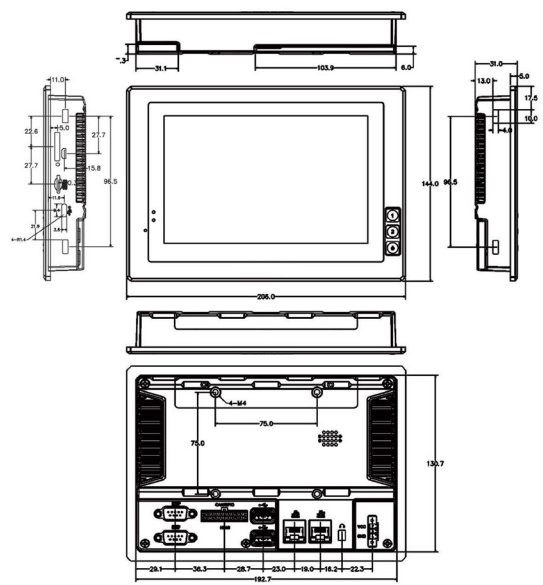
### A+ SCREEN PANELS
Multi Points Capacitive (PCAP)
Optical Bonding Technology

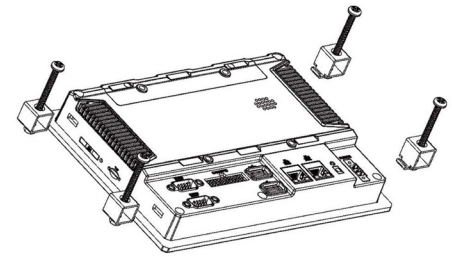
ESD testing comply with IEC61000-4-2,GB-T17626.2

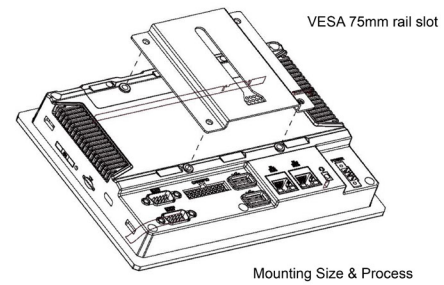
Electrical transient conduction testing comply with ISO 7637-2

Anti Vibration testing comply with EN 60068-2-6 GB-T2423.10

**Certification comply with FCC & CE**

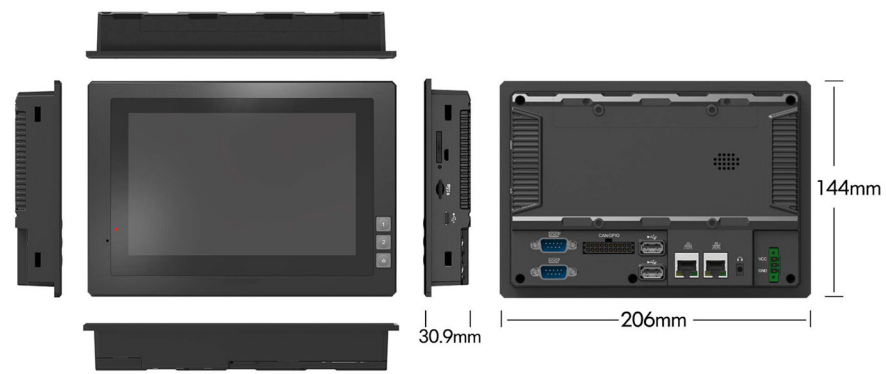






VESA 75mm rail slot

Mounting Size & Process
1. VESA 75mm mounts
2. Standard mounts
3. VESA 75mm rail slot mounts




## ACCESSORIES

STANDARD


12V DC Adapter


GPIO/CAN Cable


DB9 To RS232×3 Cable


Fixing Screws

OPTIONAL


DB9 To RS232/RS485


VESA 75mm Rail Slot Mount


Micro SD Card


neway®

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