



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.



800 nits High Brightness



Multi-point Touch



Metal Housing



ISO 7637-2

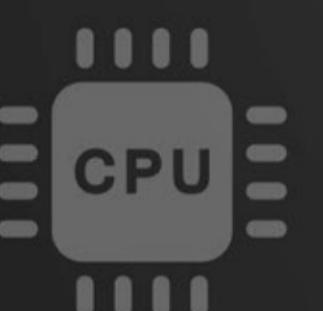


Android 9.0 /
Linux Debian 10



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.

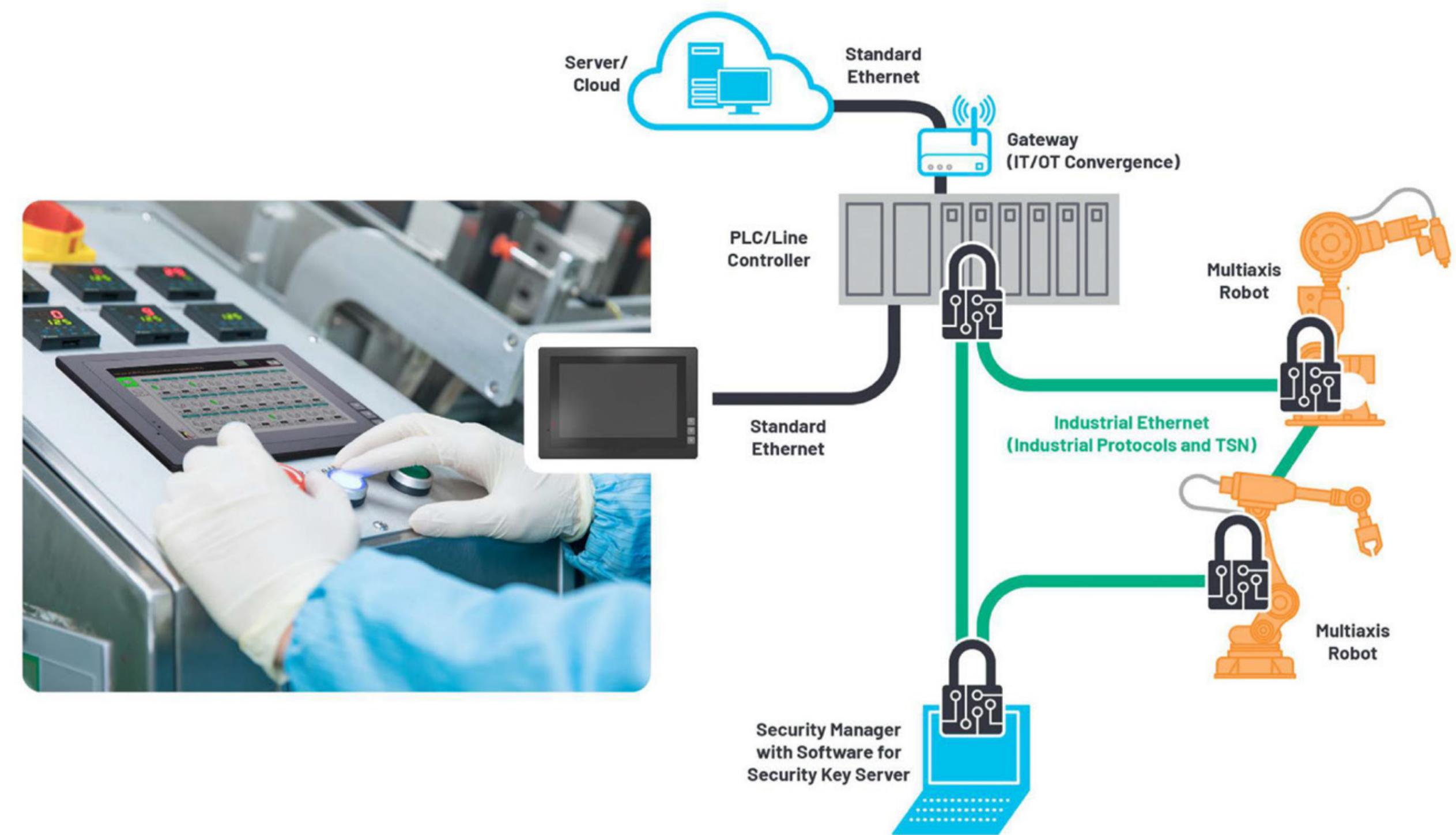
Earphone Jack

⑧ Stereo Audio Output (3.5mm)×1.

Power Supply

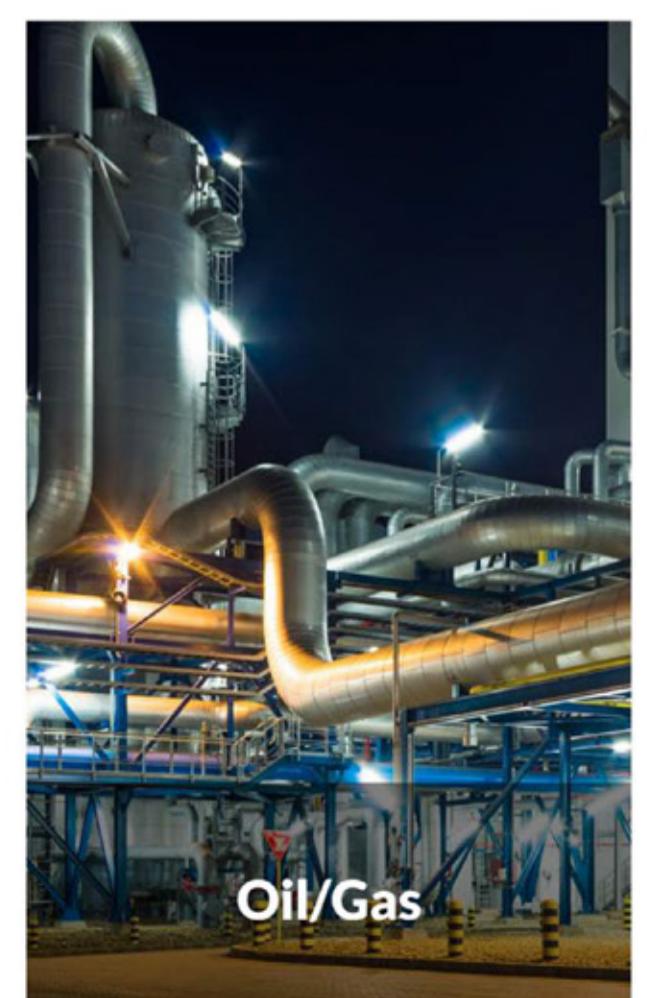
⑨ 3-Pin Terminal Block, DC 8-36V.

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
DISPLAY	OS Android 9.0 / Linux Debian 10
INTERFACES	RAM + ROM 2GB LPDDR4 (4GB is optional) + 16GB Flash (64GB is optional)
OPTIONAL FUNCTION	GPU 3D GPU (1×shader, OpenGL® ES2.0), 2D GPU
POWER	Sensors Gyroscope & accelerometer
OTHERS	LCD 7", 1280×800, 800 nits, 170°/170° viewing angle
	Touch Screen Multi-point capacitive touch screen
	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) <ul style="list-style-type: none"> 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
	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 Supply DC 8~36V
	Power Consumption ≤12.5W (≤2.5W when standby)
	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)

