LILLIPUT®

Industrial Grade For i.MX 8

i.MX 8

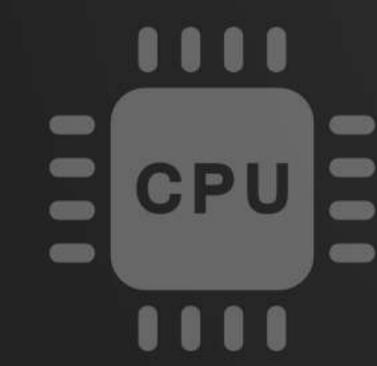The i.MX 8M Mini is embedded multicore applications processor built using advanced process technology, providing more speed and improved power efficiency. With industrial level qualification and backed by longevity program, the i.MX 8M Mini may be used in any general purpose industrial applications.

EMBEDDED
INDUSTRIAL PANEL PC

PC-701 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		PROTECTION		
800 nits High Brightness	Multi-point Touch	Metal Housing	ISO 7637-2	Android 9.0 / LInux Debian 10

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.

① SIM Card Slot
SIM card×1.

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

USB Ports
③ USB Type-C device×1;
⑥ USB Host×2.

④ Serial Ports (4 options)
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.

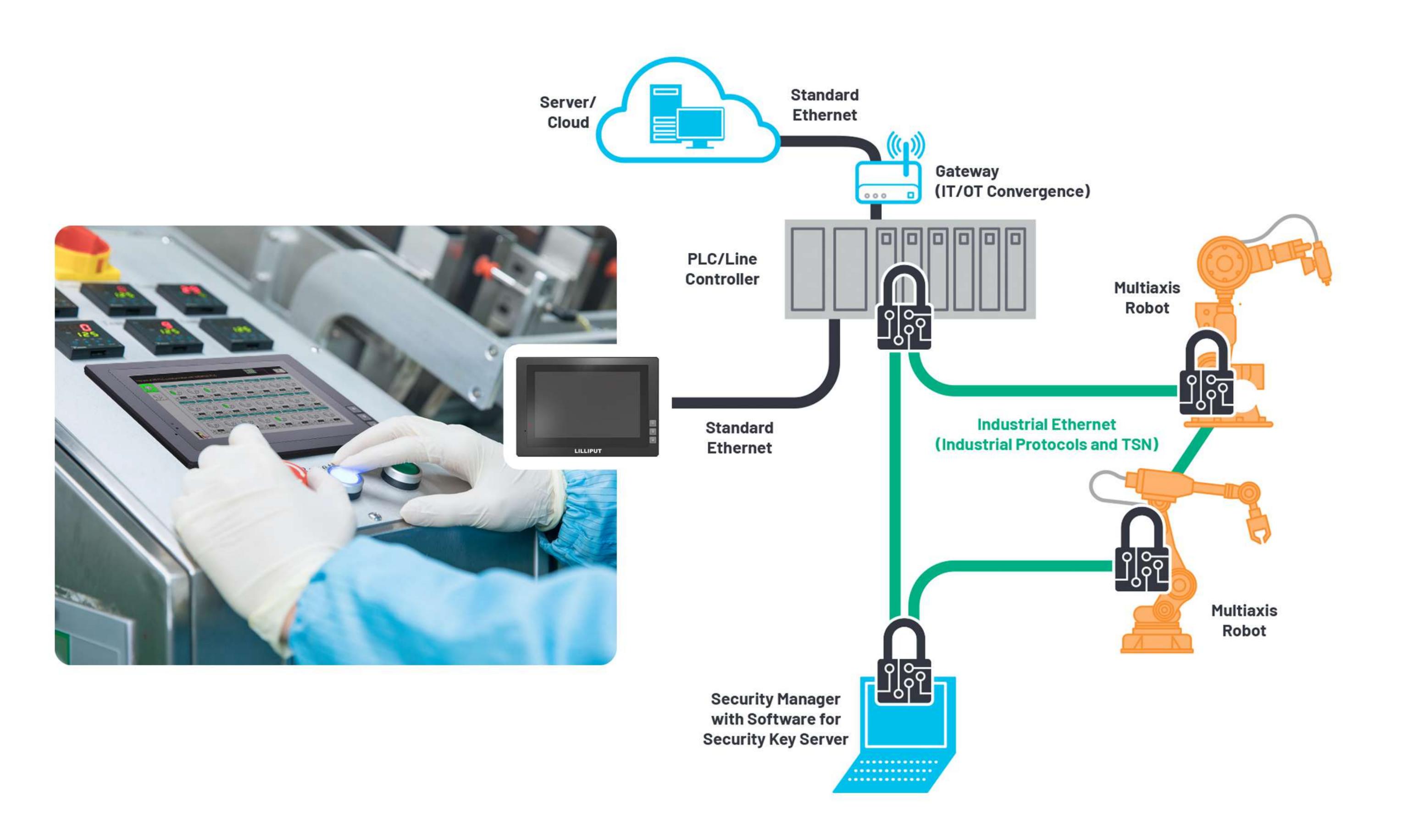### ⑤ CAN/GPIO
Default CAN×1, Optional extra CAN×1;
GPIO×8, software freely define input and output.

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

⑧ Earphone Jack
Stereo Audio Output (3.5mm)×1.

⑨ Power Supply
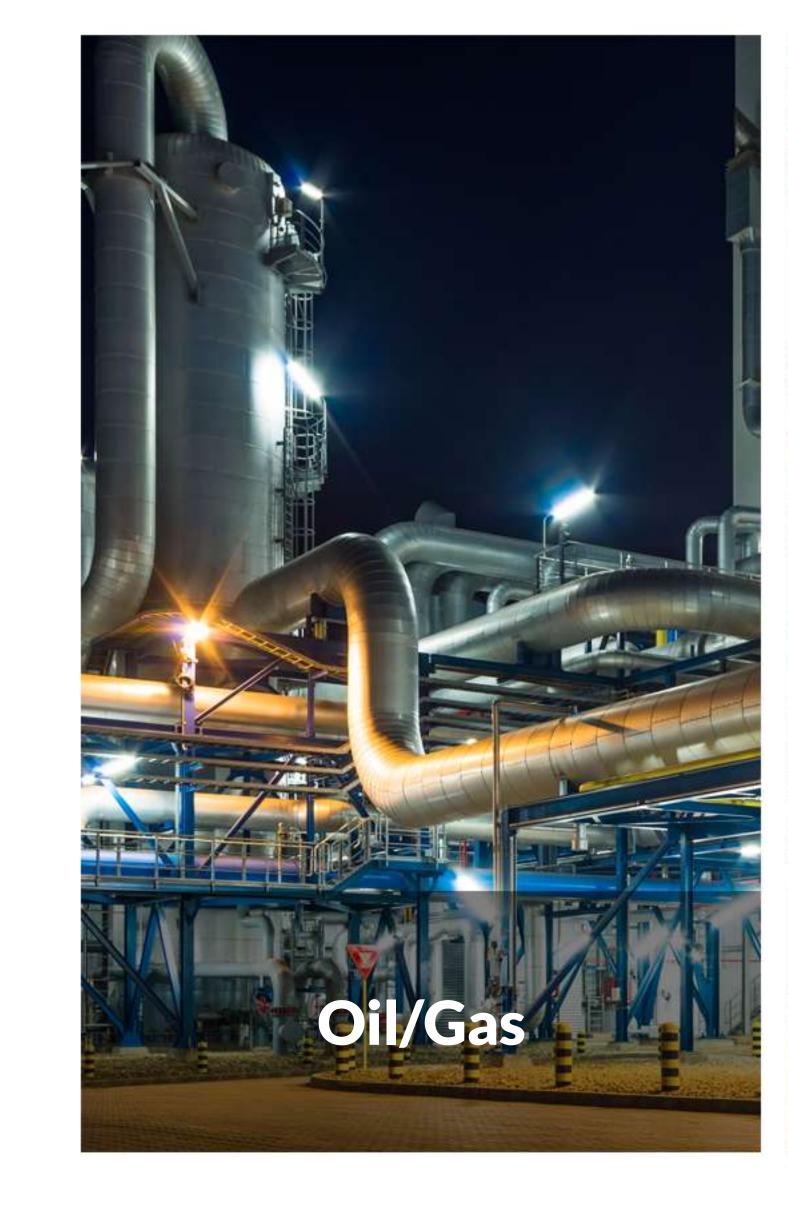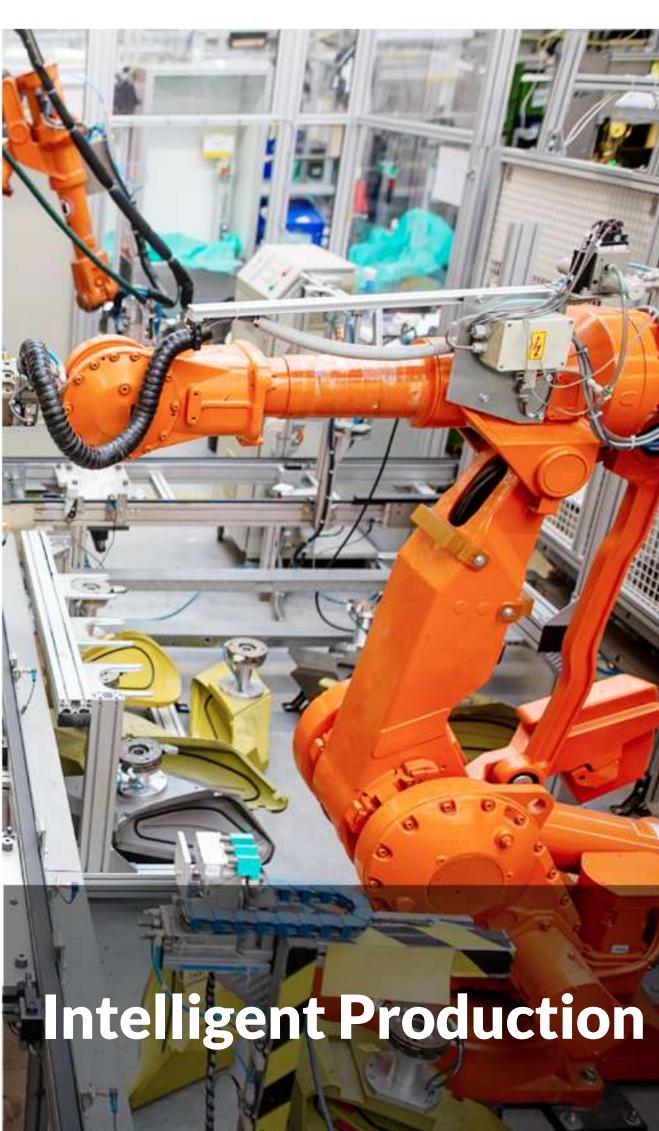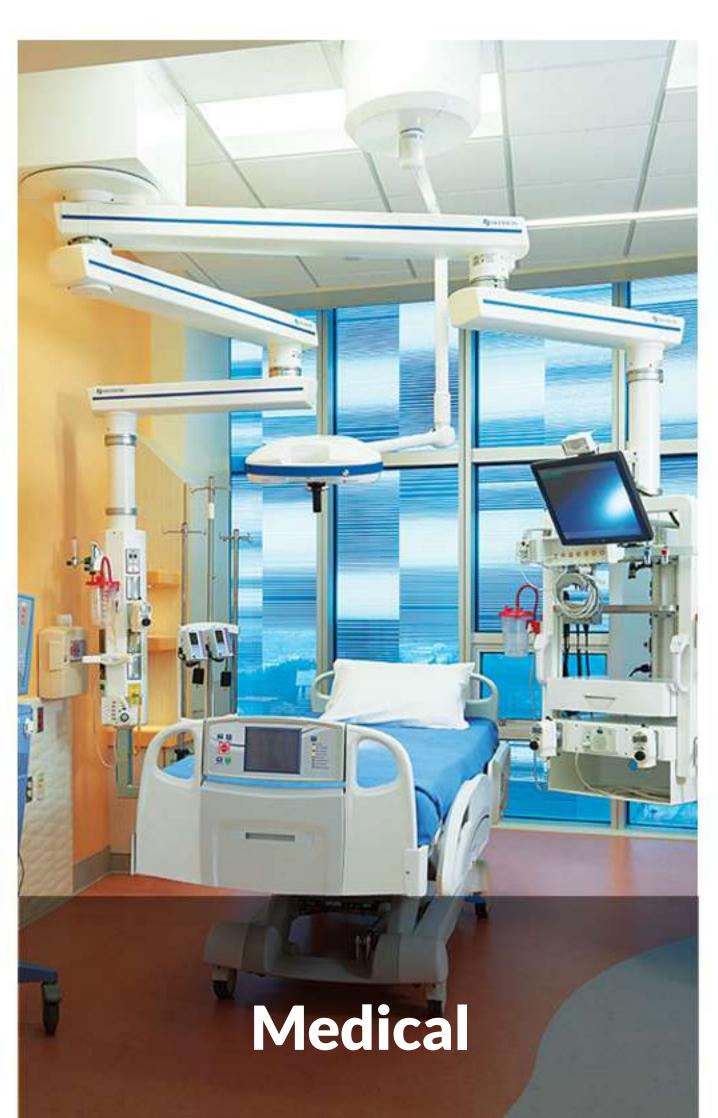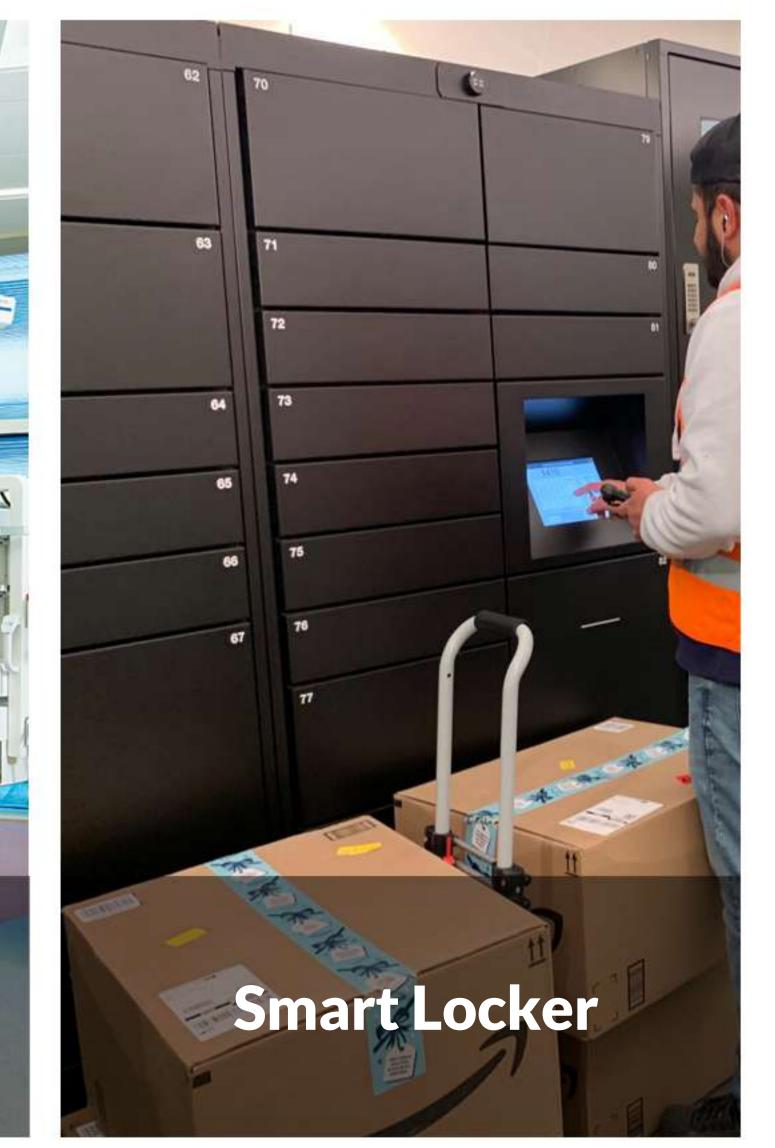3-Pin Terminal Block, DC 8-36V.

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.
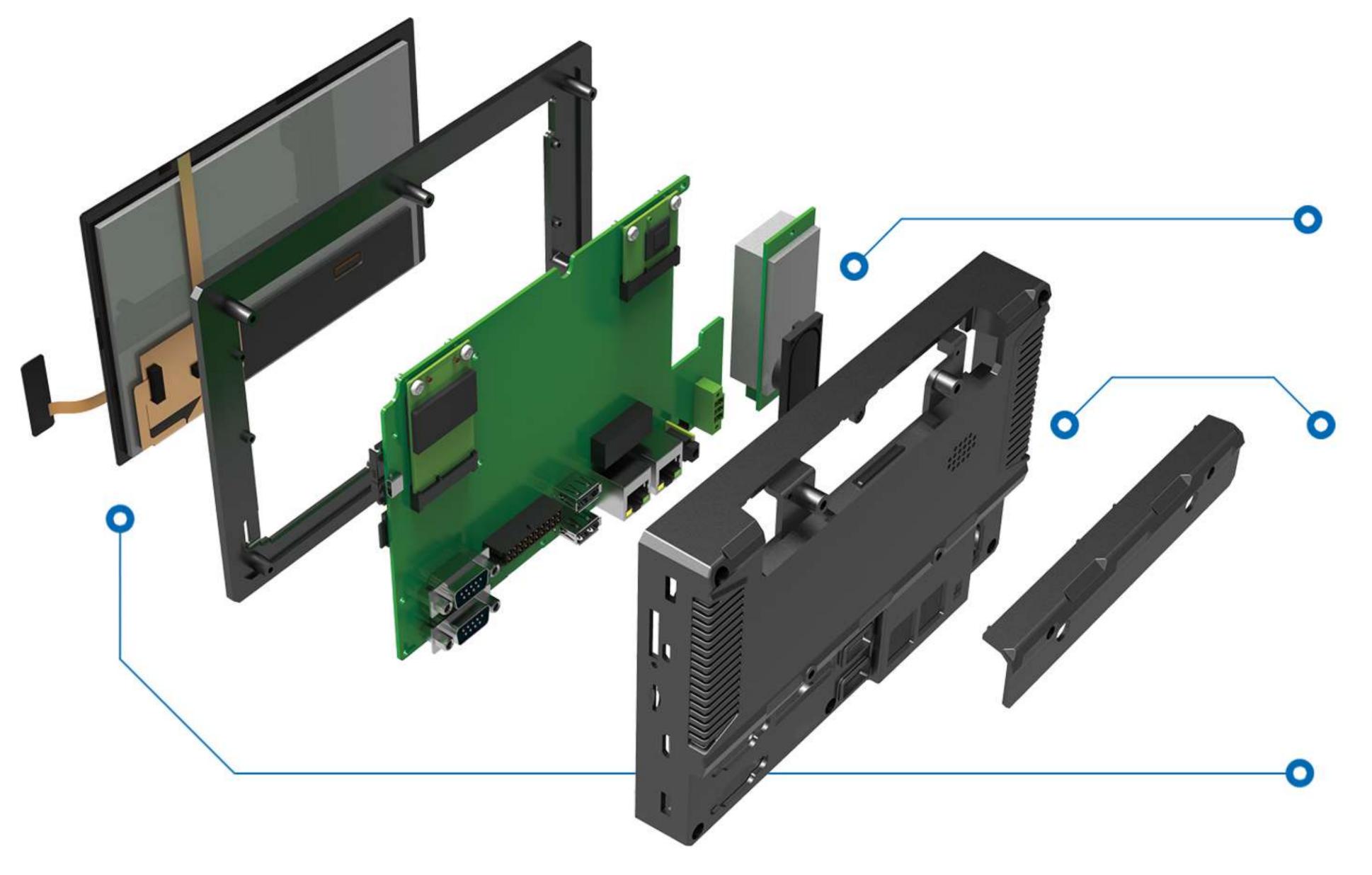
Oil/Gas

Intelligent Production

Medical

Smart Locker

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	1280×800, 800 nit, 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)

VESA 75mm rail slot

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

PCB BOARD
8 Layers PCB with 1.60mm Thickness.

ALUMINUM DIE CASTING
Aluminum Alloy
Strong, Rugged, Light, Unibody and Shielding
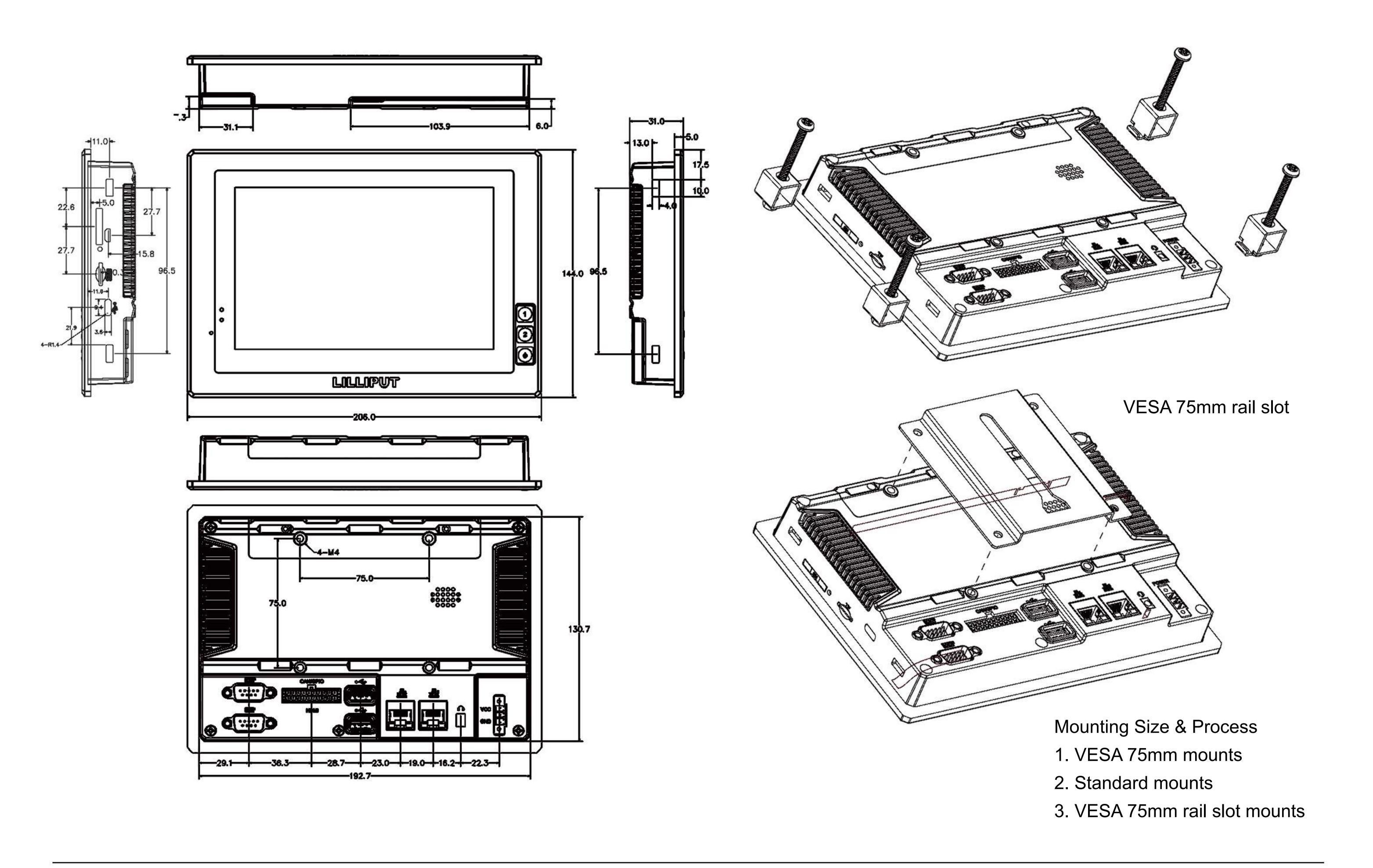
A+ SCREEN PANELS
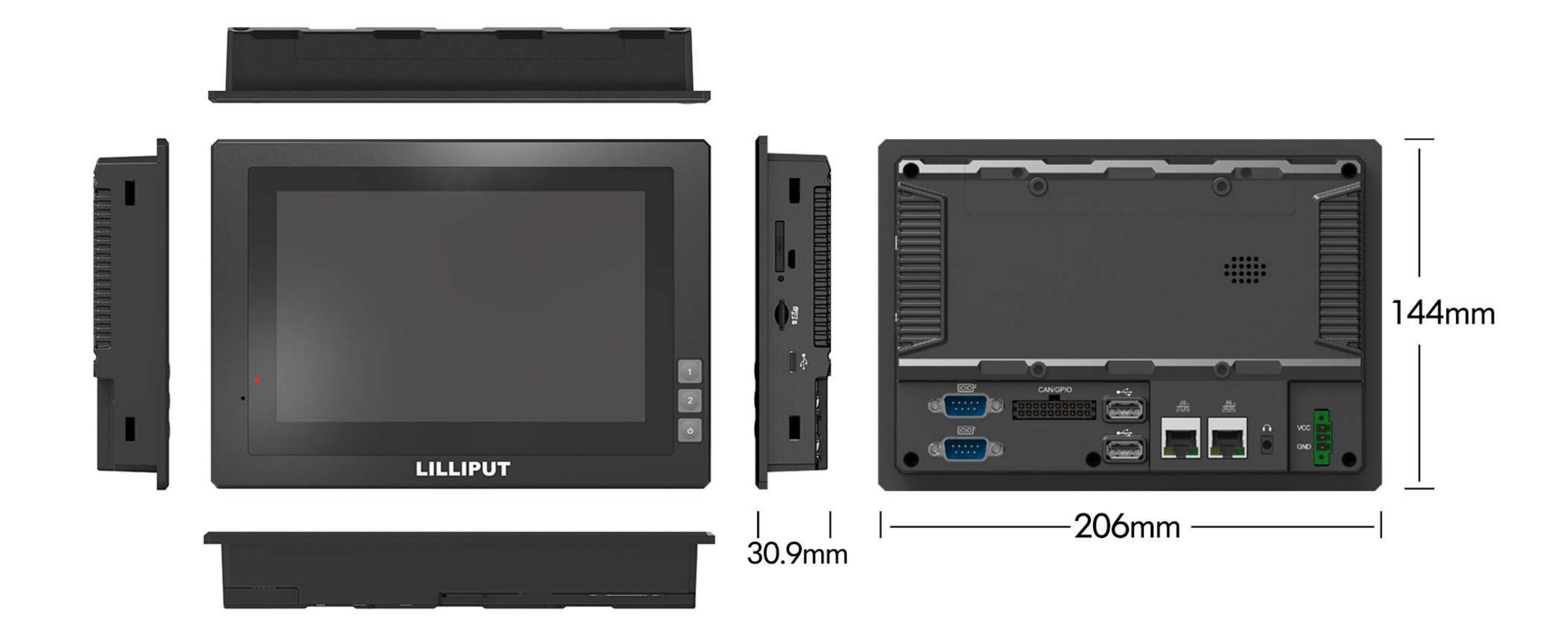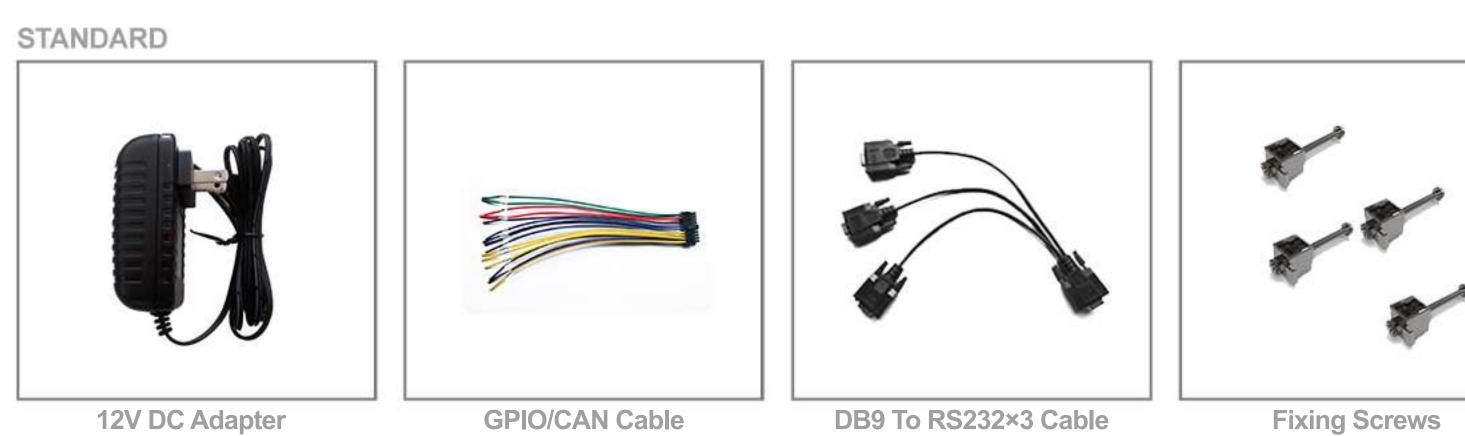Multi Points Capacitive (PCAP)
Optical Bonding Technology

144mm

30.9mm

206mm

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

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