LILLIPUT

Embedded Industrial PC

7" PC-701 / PC-702

Embedded computer solutions for a wide range of industrial applications.

ISO 7637-2 • Aluminum Alloy

PC-701 & PC-702 is a 7" smart and rugged industrial touch PC , integrates rich function like WiFi, 4G LTE, Bluetooth for wireless communication; HDMI Output, USB Host and LAN ports for various real-time transmission. Besides, it configured with standard professional interface: 2 RS232 & CAN& GPIO ports for different industrial applications.

As a part of industrial control system, achieve better management for engineers and managers
- Convenient embedded mounts
- Capacitive touch screen with G+G tech
- Rich & high-performance interface

Smart connection and communication

System support
PC701: Linux Debian 8.0/ Android 5.1.1
PC702: Windows 10, 32-bit (unactivated)

Powerful CPU
PC701: NXP i.MX 6DualLite 800MHz processor
PC702: Intel Atom Z8350 1.44GHz

Screen
7" IPS panel with LED backlight and HD1280×800 physical resolution

Touch
10 points Multi-touch capacitive screen with friendly user experience

Power Consumption
Normal mode: ≤10W
Standby mode: ≤5W

Multi Mounting
75mm VESA mounting support

Power Over Ethernet (PoE)
Support up to 720p.

HDMI 1.4 OUT

RS232
A form of serial data transmission, it is used to talk to other modules, such as HMI, computers or drives…

RS485/RS422
It could communicate to multiple devices even with faster transmission speed and longer cable length, which is widely used in Industrial Control Systems.

CAN
The CAN bus protocol allows ECUs to communicate with each other without complex dedicated wiring in between.

GPIO
Stands for General purpose input/output, it is popular in controlling digital signal behavior on an integrated circuit or electronic circuit by acting as input or output at run time.
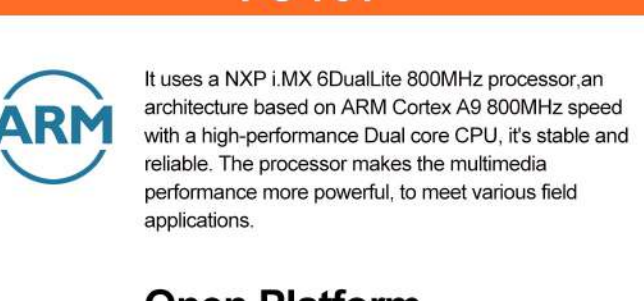
Wi-Fi
802.11a/b/g/n, 2.4GHz

Bluetooth
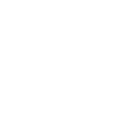Bluetooth 4.0 2402MHz~2480MHz

Cellular Connection
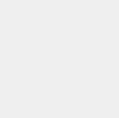LTE, DC-HSPA+, WCDMA, GSM

Performance

Linux Debian 8.0   Android 5.1.1   Win10, 32-bit

PC-701
ARM

It uses a NXP i.MX 6DualLite 800MHz processor an architecture based on ARM Cortex A9 800MHz speed with a high-performance Dual core CPU, it's stable and reliable. The processor makes the multimedia performance more powerful, to meet various field applications.

Open Platform
- SmartEmbedded system provides full-line R&D technical services including system structure design, PCB design, hardware design & software design, as well as system integration.

Lower Consumption
- Consumption even no more than 10W, is able to enhance productivity and cost effectiveness. With the lower temperature on its metal housing, it create a great distribution to industrial safe.

PC-702
X86

It uses an Intel Atom Z8350 1.44GHz processor which is based on X86 architecture, Windows 10 runs great on the reliable industrial level Intel Core CPU, with excellent computing and processing capabilities and its low power consumption make it play an important role in industrial management.

High Efficiency
- Embedded Computer solutions offer a secure and energy-efficient processing foundation for electronic devices. That are highly specified by customers' needs.

Multiple tasks
- Based on the Windows 10 OS, to make the device to run multiple interface and programs simultaneously. It is convenient for the operator to monitor and control the manufacturing process in various industrial fields.
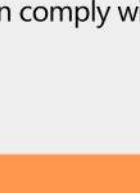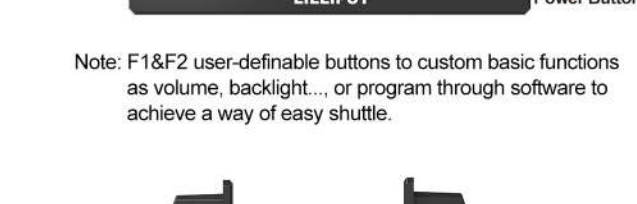
Certification comply with FCC & CE
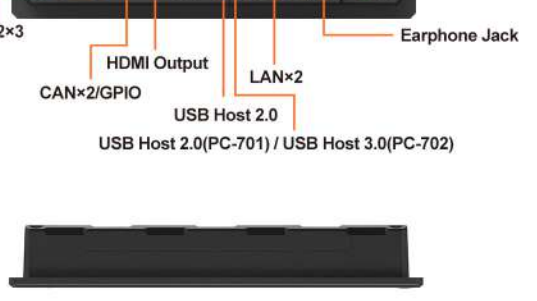
Structure

RUGGED INDUSTRIAL DESIGN
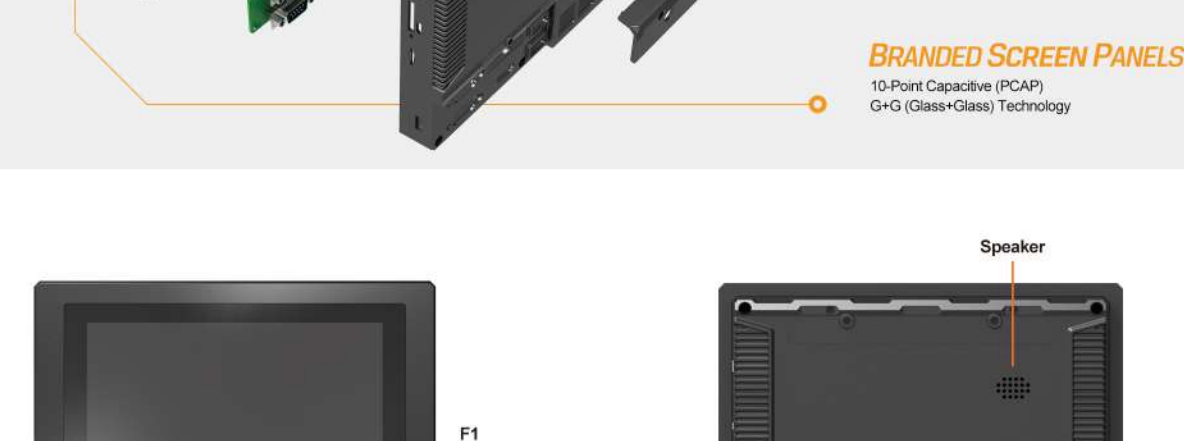
PCB BOARD
6-Layers PCB with 1.60mm Thickness.

ALUMINIUM DIE CASTING
Aluminum Alloy
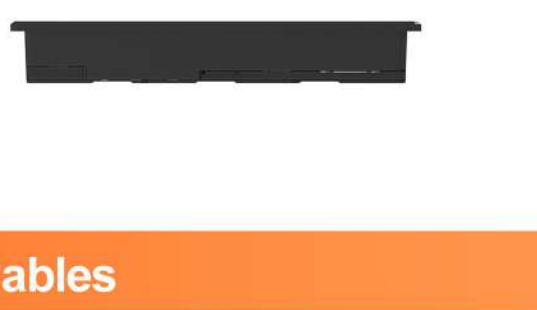Strong and Rugged; Light; Unlocks; Shielding.

BRANDED SCREEN PANELS
10-Point Capacitive (PCAP)
G+G (Glass+Glass) Technology.

Indicator Reset Button

F1   F2
Power Button

Note: F1&F2 user-definable buttons to custom basic functions as volume, backlight... or program through software to achieve a way of easy shuttle.

Speaker

RS232
/RS485
/RS422

HDMI Output
CAN+GPIO

LAN×2

Power

Earphone Jack

USB Host 2.0

USB Host 2.0(PC-701) / USB Host 3.0(PC-702)

SIM Card Slot
Micro USB Device (only for PC701)
Micro SD Card Slot

Various Extended Cables

COM1 RS232
IOXT port connects with the included DB9 to RS232 cable is extend as three-way RS232 interface.

COM2 RS232
IOX3 port connects with the optional DB9 to RS232/RS485 cable is extend as RS232, RS422 and RS485 three-way communication interfaces.

Note: RS422 and RS485 can not work/be extend simultaneously, as well as RS485 and RS232, use the alternative option because of the same chip.

CAN+2 / GPIO
The port compatible with both GPIO and 2×CAN BUS interface.

GPIO supports 4-input(GND in) and 4-output (3.3V/7.5V/24V).

CAN L / H5, CAN H / H5.
CAN1 L / H5, CAN2 H / H5.

LAN×2
LAN Port1: 100M Ethernet.
LAN Port2: 100M Ethernet / PoE for optional.

Note: It has a 2 standard Ethernet ports, but one of them is only used for Internet access, another of them (Port2) could support PoE(optional) - both of them is worked at the same time but Port2 is default for internet access. Port1 can be choose if need.

Only LAN port2 is available when the both LAN ports are using simultaneously, under Android OS (PC-701).
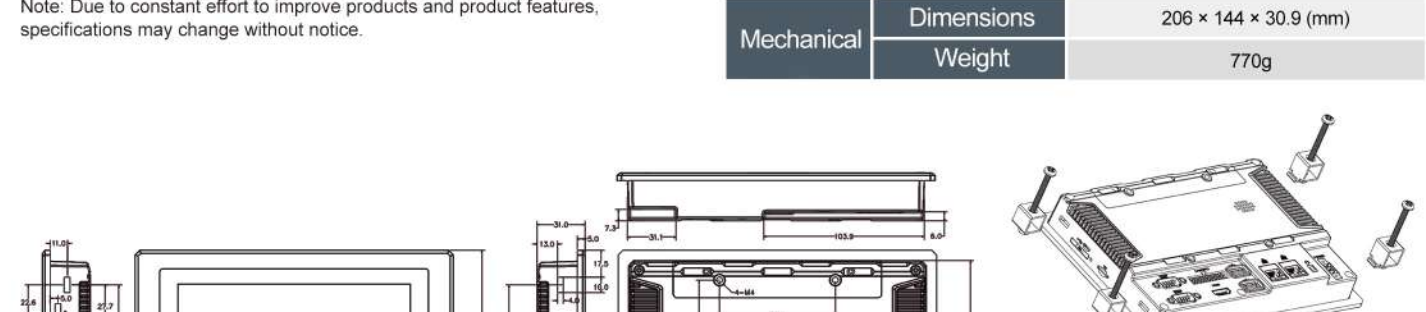
Specification
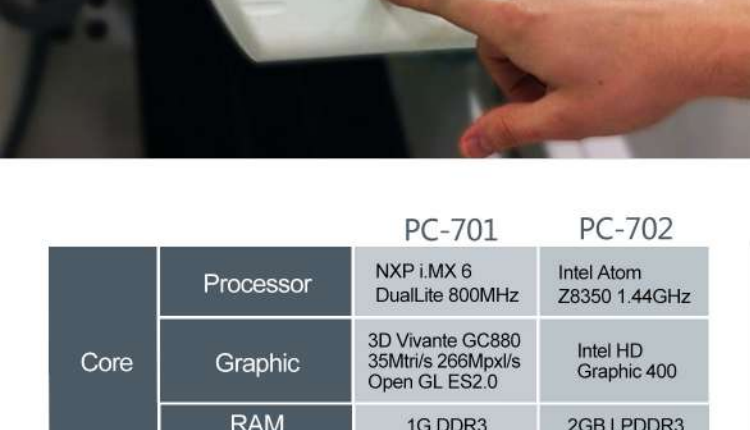
As one of the important part within industrial management system in different fields, eg. Intelligent industrial control system, electric power industry, manufacturing, medical treatment, HMI, port terminal, etc.

		PC-701	PC-702
Core	Processor	NXP i.MX 6 DualLite 800MHz	Intel Atom Z8350 1.44GHz
	Graphic	3D Vivante GC880 200MHz 2000fps/s Open GL ES2.0	Intel HD Graphic 400
	RAM	1G DDR3	2GB LPDDR3
	ROM	8G eMMC	32GB Emmc
	OS	Android 5.1.1 Linux Debian 8.0	Win10, 32-bit (unactivated)
Display	LCD panel	7" (I.C)	
	Resolutions	1280×800	
	Brightness	400cd/m²	
	Contrast Ratio	800:1	
	View Angle	160°/160° (H/V)	
	Touch panel	Capacitive	
Wireless Connection	WiFi	802.11a/b/g/n, 2.4GHz	
	Bluetooth	Bluetooth 4.0 2402MHz~2480MHz	
	Cellular	4G/ 3G/ 2G	

Note: Due to continued effort to improve products and product features, specifications may change without notice.

		PC-701	PC-702
Rich Interface	USB	USB Host 2.0 × 2	USB Host 2.0 ×1 / 3.0 ×1
	TF card	1 (for 2 / 256g, not 128G)	
	SIM card	1 (for 2 / 256, mini SIM)	
	HDMI	HDMI 1.4 Ouput	
	GPIO	4-input, 4-output	
	CAN	2.0B×2	2.0B×2(Optional)
	RS232	RS232×1/RS485×1(optional)	
	RS485	RS232×1/RS485×1(optional)	
	RS422	RS232×1/RS485×1/RS422×1(optional)	
	LAN	100M×2	
Mounting	Bracket Support	75mm VESA	
Power Supply	DC in	9-36V	
	Consumption	≤10W	
	PoE (Optional)	Power over Ethernet	
Environment	Operating Temp	-20°C ~ 60°C	-20°C ~ 60°C
	Storage Temp	-30°C ~ 70°C	-30°C ~ 70°C
Mechanical	Dimensions	200 × 144 × 30.9 (mm)	
	Weight	770g	

VESA 75mm std mount

Mounting Size & Process:
1. VESA 75mm mount.
2. Standard Embedded.
3. VESA 75mm std mount.

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