

Powerful. Beautiful.  
**Excellence · Innovation**

IPC21104  
IPC22104  
IPC24104



**Shanghai Panelmate Electronics Co., Ltd.**

10.4" SVGA Industrial Panel PC

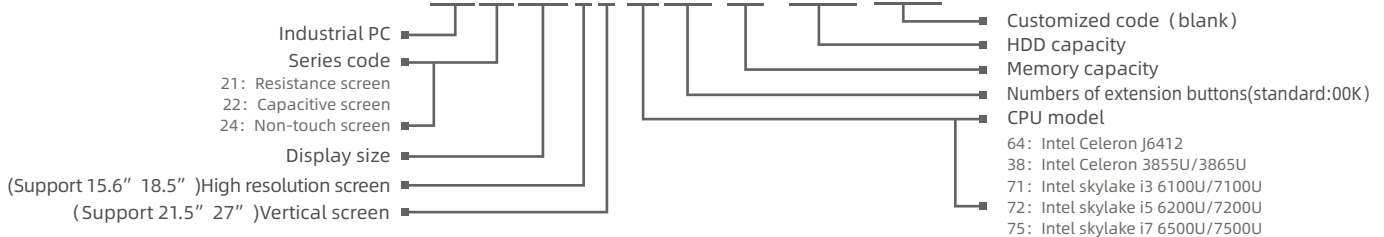


## Features

- Display type: 10.1",10.4",12.1",12.2",15",15.6",17",18.5",19",21.5",27"
- Front panel/back cover: Aluminium-magnesium alloy
- Large aluminium fins design to ensure the reliability and heat dissipation
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen,Multi-point capacitive touchscreen,Non-touch screen
- OS:Win XP, Win7,Win10/Win11, Win CE, LINUX
- Equipped with 2xIntel i210AT Gigabit network cards, 4xUSB ports
- Processor: Intel Celeron J6412(don't support Win XP,Win 7)/3855U/3865U and Intel skylake i3/i5/i7 multiple CPU options
- Extendable WIFI/4G
- Customized LOGO

## Namely Rule

IPC2XXXXHP-xxxxK-4G-128G-xxxx

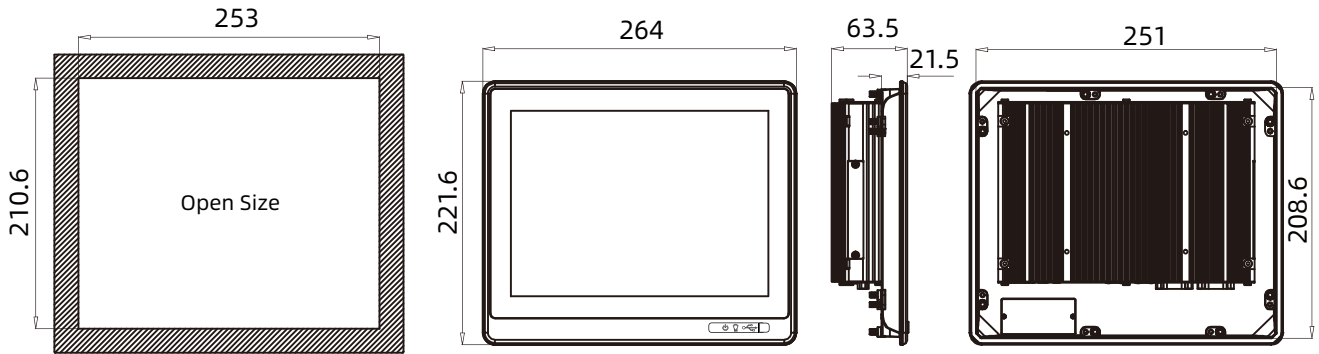


## Specifications

Model	IPC21104&IPC22104&IPC24104			
<b>Processor</b>	CPU	Intel®Celeron® processor 3855U	Intel®Apollo Lake processor J3455	Intel®Core™i5 processor
	Frequency	Dual Core 1.6GHZ	Quad Core 1.5GHZ	Dual Core 2.3GHZ
	Cache	2MB	2MB L2 Cache	3MB Intel®Smart Cache
	Memory	DDR4-2133/2400MHz,Max:16GB	1xSODIMM DDR3L 1333MHZ,Max:8GB	DDR4-2133/2400MHz,Max:16GB
	Storage	1x2.5" SATA 3.0 +1 x mSATA		
<b>I/O</b>	Network (LAN)	2xIntel i210 1000Mbps RJ45 with surge protection		
	Audio	Realtek ALC662VD audio controller,support 5.1 channels		
	USB	4xUSB3.0/2.0		
	COM	2xRS232/RS485 with surge protection, RS485 support automatic flow control		
	Expansion Slot	1xMin-Pcle X1, Support 4G LTE/WIFI/BT with Sim card slot		
<b>Power</b>	Rear I/O	1xHDMI/2xGLAN/4xUSB/2xCOM/AUDIO/DC IN/Power Switch		
	Input Voltage	DC 9~36V		
<b>Physical</b>	Power	30W		
	Display Port	HDMI		
	Dimension (WxHxD/mm)	264 x 221.6 x 63.5 ( 10.39"x8.72"x2.50")		
	Open Size (WxH/mm)	253 x 210.6 ( 9.96"x8.29")		
	Net Weight(kg)	2.4		
<b>LCD</b>	Mounting	Embedded,Wall-mounted,VESA mounting		
	Display Type	10.4" WXGA TFT		
	Resolution	800 x 600		
	Colors	16.2M		
	Active Area (WxH/mm)	211.2 x 158.4 ( 8.31"x6.24")		
	Backlight	LED		
	MTBF ( hour)	30000hrs		
	Pixel Pitch ( HxV)	0.2063x0.2063		
	Luminance(cd/m2)	350		
	Contrast Ratio	900:1		
<b>Touchscreen</b>	Viewing Angle	( L ) 75/ ( R ) 75/ ( U ) 75/ ( D ) 75		
	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen		
	Light Transmission	>85%		
	Controller	USB interface		
	Driver Support	Windows7, WES7, Windows 10, Vxworks, Linux		
	Multi-touch	10 points		
<b>Environment</b>	Surface Hardness	Resistive touchscreen: Mohs' Number>= 3H; Capacitive touchscreen: Mohs' Number 7H		
	Operating Temperature	-20~70°C		
	Storage Temperature	-20~70°C		
	Relative Humidity	5~95% ( Non condensation)		
	Shock	Operating 10G peak acceleration(11 ms duration), follow IEC 60068-2-27		
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms@with HDD; 2Grms@with SSD, follow IEC 60068-2-64		
EMC	CE/FCC Class A			
Front Panel Protection	IP65			

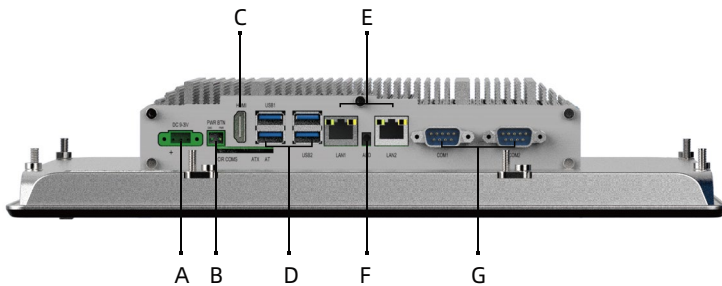
# IPC21104 & IPC22104 & IPC24104

## Technical Drawings unit:mm



Panel Cutout Dimensions: 253 x 210.6mm (9.96 x 8.29in)

## External I/O View



Interface definition:

- A: DC IN
- B: Power switch
- C: HDMI port
- D: 4xUSB 3.0/2.0
- E: 2xEthernet LAN
- F: Audio output
- G: 2xCOM

## Ordering Information

Part Number	Description
IPC21104-3800K-4G-128G	10.4" TFT LCD / Resistive touch screen / No extension button / DC9~36V Input / Resolution 1024x768 / 3855U / 4G RAM / 128G / mSATA / 2xLAN / 4xUSB / 1xHDMI
IPC22104-3800K-4G-128G	10.4" TFT LCD / Capacitive touch screen / No extension button / DC9~36V Input / Resolution 1024x768 / 3855U / 4G RAM / 128G / mSATA / 2xLAN / 4xUSB / 1xHDMI
IPC24104-3800K-4G-128G	10.4" TFT LCD / Non-touch screen / No extension button / DC9~36V Input / Resolution 1024x768 / 3855U / 4G RAM / 128G / mSATA / 2xLAN / 4xUSB / 1xHDMI

## Optional Accessories

mSATA	128G / 256G / 512G
2.5" HDD	512G / 1T / 2T
RAM	4G / 8G / 16G

## Packing List

Terminal	2 pin spring clamp terminal
Terminal	3 pin screw terminals

Note: Package contents are subject to change without prior notice