

Powerful. Beautiful.  
**Excellence · Innovation**

IPC21190  
IPC22190  
IPC24190



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

19" SXGA Industrial Panel PC

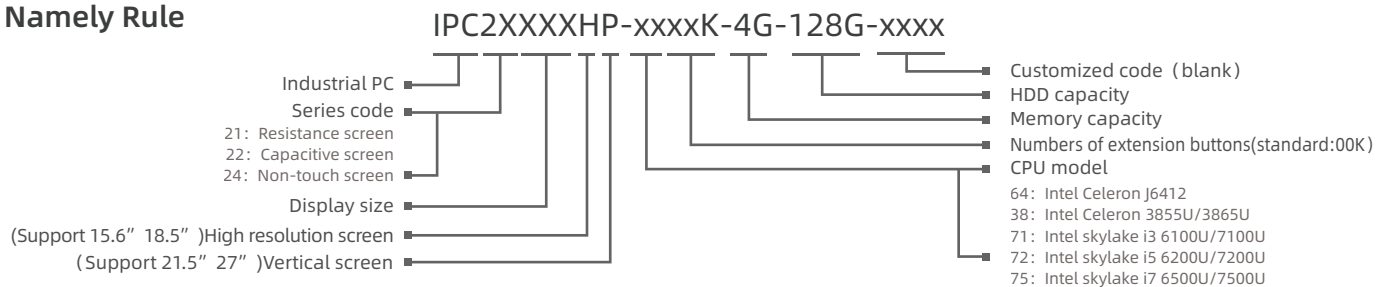
# IPC21190 & IPC22190 & IPC24190



## 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
- Extensible WIFI , 4G network
- Customized LOGO

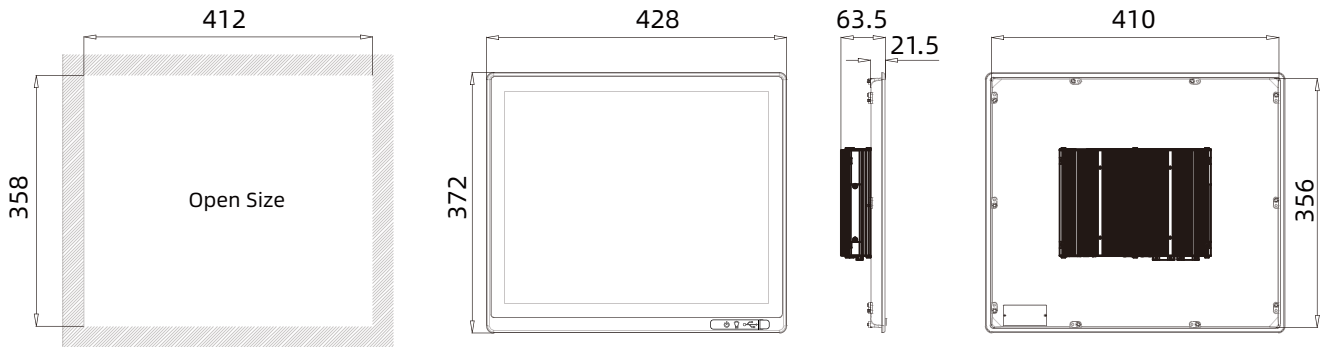
## Namely Rule



## Specifications

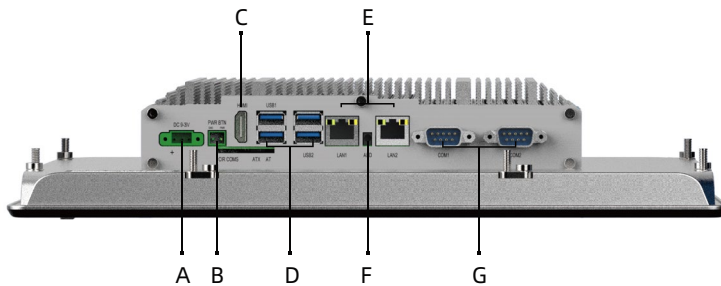
Model	IPC21190&IPC22190&IPC24190			
<b>Processor</b>	CPU	Intel®Celeron® processor 3855U	Intel®Apollo Lake processor J3455	Intel®Core™i5 processor
	Frequency	Dual Core 1.6GHZ	Quad Core 1.5GHZ	Dual Core 2.3GHZ
	Cache	2MB	2MB L2 Cache	3MB Intel®Smart Cache
	Memory	DDR4-2133/2400MHz,Max:16GB	1xSODIMM DDR3L 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-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot		
	Rear I/O	1xHDMI/2xGLAN/4xUSB/2xCOM/AUDIO/DC IN/Power Switch		
<b>Power</b>	Input Voltage	DC 9~36V		
	Power	39W		
<b>Physical</b>	Display Port	HDMI		
	Dimension (WxHxD/mm)	428 x 372 x 63.5 (16.85"x14.65"x2.5")		
	Open Size (WxH/mm)	412 x 358 (16.22"x14.09)		
	Net Weight(kg)	5.45		
	Mounting	Embedded,Wall-mounted,VESA mounting		
	<b>LCD</b>	Display Type	19" SXGA TFT	
Resolution		1280x1024		
Colors		16.7M		
Active Area (WxH/mm)		376.32 x 301.06 (14.82"x11.85")		
Backlight		LED		
MTBF (hour)		30000hrs		
Pixel Pitch (HxV)		0.294x0.294		
Luminance(cd/m2)		250		
Contrast Ratio		1000:1		
Viewing Angle		(L) 85/ (R) 85/ (U) 80/ (D) 80		
<b>Touchscreen</b>	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen		
	Light Transmission	>85%		
	Controller	USB interface		
	Driver Support	Windows7, WSE7, Windows 10, Vxworks, Linux		
	Multi-touch	10 points (Windows)		
	Surface Hardness	Resistive touchscreen: Mohs' Number>= 3H; Capacitive touchscreen: Mohs' Number 7H		
<b>Environment</b>	Operating Temperature	0~50°C		
	Storage Temperature	-20~60°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			

## Technical Drawings unit:mm



Panel Cutout Dimensions: 412 x 358mm ( 16.22 x 14.09in )

## 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
IPC21190-3800K-4G-128G	19" TFT LCD / Resistive touch screen / No extension button / DC9~36V Input / Resolution 1280x1024 / 3855U / 4G RAM / 128G / mSATA / 2xLAN / 4xUSB / 1xHDMI
IPC22190-3800K-4G-128G	19" TFT LCD / Capacitive touch screen / No extension button / DC9~36V Input / Resolution 1280x1024 / 3855U / 4G RAM / 128G / mSATA / 2xLAN / 4xUSB / 1xHDMI
IPC24190-3800K-4G-128G	19" TFT LCD / Non-touch screen / No extension button / DC9~36V Input / Resolution 1280x1024 / 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