

Powerful. Beautiful.

Excellence · Innovation

IPC21190D

IPC22190D

IPC24190D



Shanghai Panelmate Electronics Co., Ltd.

19" SXGA Industrial Panel PC (D Series)

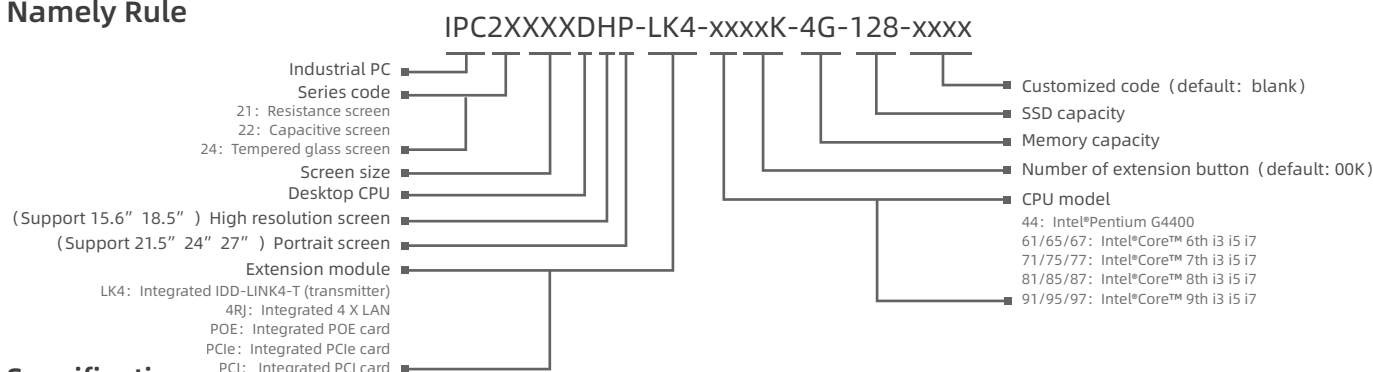
IPC21190D & IPC22190D & IPC24190D



Features

- Display type: 12.1",12.2",15",15.6",17",18.5",19",21.5",24",27"
- Front panel/back cover: Aluminium-magnesium alloy
- Modular design, with PC6970 series desktop host, support expansion
- Expansion 1 x PCIe x 16 + 1 x PCIe x 8 or 1 x PCIe x 16 + 1 x PCI
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Tempered glass screen
- OS: Win7, Win8, Win10, Win11, Linux, etc
- Processor: Intel®Core™6th/7th/8th/9th i3 i5 i7, Intel®Pentium® processor optional
- DC 12~24V
- Active cooling with fan

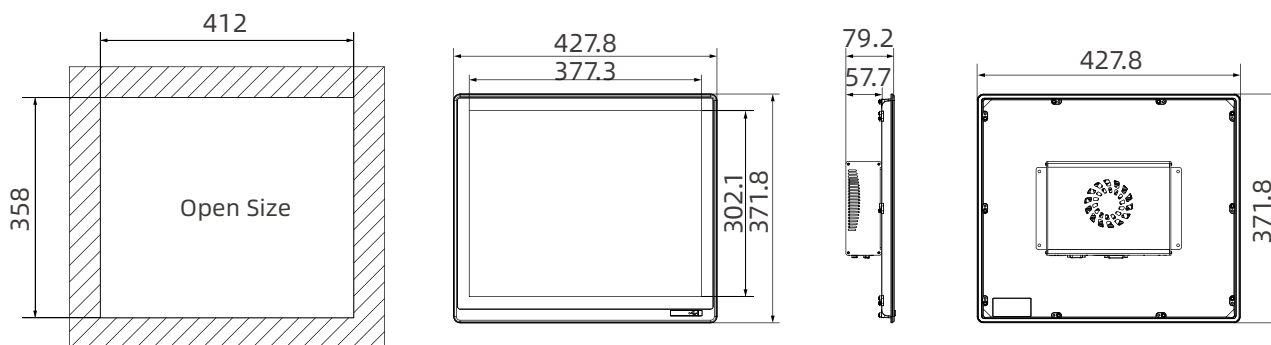
Namely Rule



Specifications

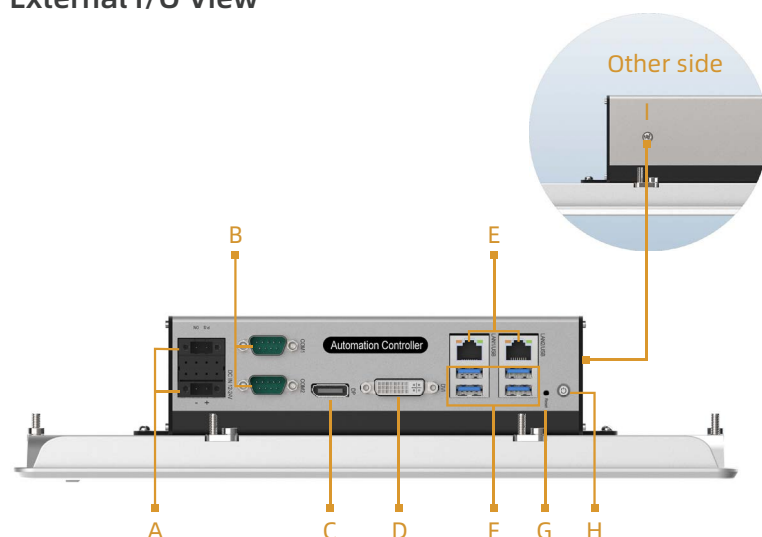
Model	IPC21190D & IPC22190D & IPC24190D	
Processor	CPU	Intel®Pentium G4400, Intel®Core™ 6th/7th/8th/9th i3/ i5/ i7
	BIOS	AMI UEFI 64Mbit
	chipset	H110
	Memory	DDR4-2133, Max: 32GB
	Storage	1x2.5" SATA 3.0+1 x mSATA
I/O	Network (LAN)	2xIntel i210 1000Mbps RJ45 ethernet port with surge protection
	Audio	Realtek® HDA Codec, with MIC/Line-out and Amplifier
	USB	4xUSB3.0
	COM	2xRS232/RS485 with surge protection, RS485 support automatic flow control
	Expansion Slot	1xMini-PCIe X1, Support 4G LTE/WIFI/BT with Sim card slot
	Rear I/O	1xDVI/2xGLAN/4xUSB3.0/2xCOM/DP/DC IN/Power Switch
Power	Input Voltage	DC 12~24V
	Power	130W
Physical	Display Port	DP/DVI
	Dimension (WxHxD)	428mmx372mmx63.5mm (16.85"x14.65"x2.5")
	Open Size (WxH)	412mmx358mm (16.22"x14.09")
	Net Weight(kg)	6.3kg
	Mounting	Embedded
LCD	Display Type	19" SXGA TFT
	Resolution	1280x1024
	Colors	16.7M
	Active Area (WxH)	376.32mmx301.06mm (14.82"x11.85")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.294x0.294
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	1000:1
	Viewing Angle	(L) 85/ (R) 85/ (U) 80/ (D) 80
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Tempered glass screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Windows7, Windows8, Windows 10, Windows 11, Linux
	Multi-touch	10 points
	Surface Hardness	Resistive touch screen: Mohs hardness >= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	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



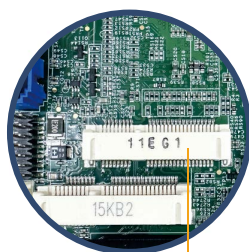
Panel Cutout Dimensions: 412mm x 358mm (16.22 x 14.09 in)

External I/O View



Interface definition:

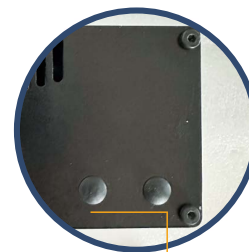
- | | |
|------------------|-----------------|
| A: DC 12~24V | F: 4 X USB3.0 |
| B: 2 x RS232/485 | G: Reset |
| C: DP | H: Power Switch |
| D: DVI | I : GND |
| E: 2 x RJ45 | |



miniPCIe Expansion slot



Built-in USB2.0 dongle



2 x Wireless circle antenna

Remark: All above shows the standard interface, and the other expansion modules are detailed in the PC6970 series datasheet

Ordering Information

Part Number	Description
IPC21190D-4400K-4G-128G	19" TFT LCD / Resistive touch screen / No extension button / DC 12~24V Input / Resolution 1280x1024 / Intel®Pentium G4400 / 4G RAM / 128G mSATA / 2xLAN / 4xUSB / 1xDVI
IPC22190D-4400K-4G-128G	19" TFT LCD / Capacitive touch screen / No extension button / DC 12~24V Input / Resolution 1280x1024 / Intel®Pentium G4400 / 4G RAM / 128G mSATA / 2xLAN / 4xUSB / 1xDVI
IPC24190D-4400K-4G-128G	19" TFT LCD / Tempered glass screen / No extension button / DC12~24V Input / Resolution 1280x1024 / Intel®Pentium G4400 / 4G RAM / 128G mSATA / 2xLAN / 4xUSB / 1xDVI

Optional Accessories

CPU	Intel®Pentium	G4400
	Intel®Core™ 6th	i3-6100, i5-6500, i7-6700
	Intel®Core™ 7th	i3-7100, i5-7500, i7-7700
	Intel®Core™ 8th	i3-8100, i5-8500, i7-8700
	Intel®Core™ 9th	i3-9100, i5-9500, i7-9700
DDR4	DDR4-2400MHz, 4GB, 8GB, 16GB, 32GB	
SSD	mSATA, 64GB, 128GB, 256GB, 512GB, 1TB	
WIFI set	miniPCle, WIFI sets, (7260HMMWB) Cylindrical antenna	
4G set/EC203G module	miniPCle	

Packing List

Terminal	2x3pin phoenix terminal
----------	-------------------------

Note: Package contents are subject to change without prior notice