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IPC21185D(H)

IPC22185D(H)

IPC24185D(H)



Shanghai Panelmate Electronics Co., Ltd.

18.5" (WXGA/FHD) Industrial Panel PC (D Series)

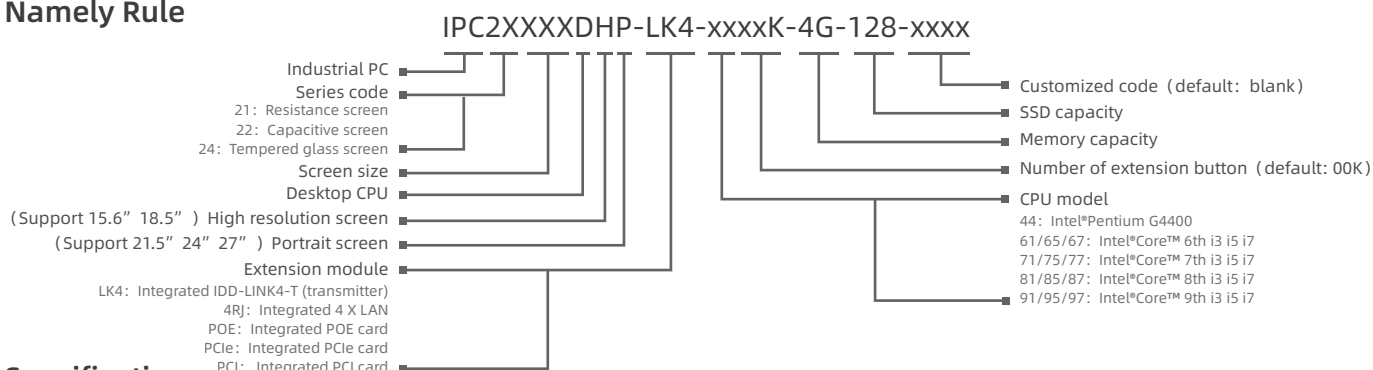
IPC21185D(H) & IPC22185D(H) & IPC24185D(H)



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

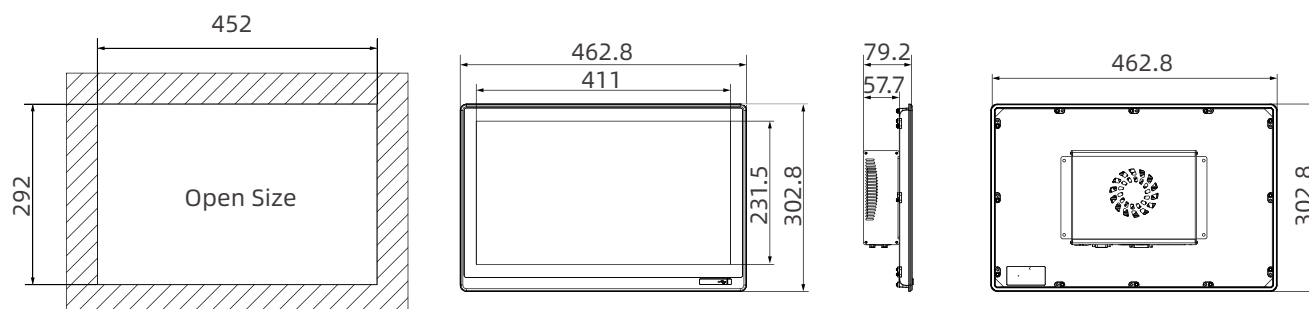


Specifications

Model		IPC21185D & IPC22185D & IPC24185D	IPC21185DH & IPC22185DH & IPC24185DH
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)	463mmx304mmx63.5mm (18.23"x11.93"x2.5")	
	Open Size (WxH)	452mmx292mm (17.80"x11.50")	
	Net Weight(kg)	5.65kg	
	Mounting	Embedded	
LCD	Display Type	18.5" WXGA TFT	18.5"FHD TFT
	Resolution	1366x768	1920 x 1080
	Colors	16.7M	
	Active Area (WxH)	409.8mmx230.4mm (16.13"x9.07")	
	Backlight	LED	
	MTBF (hour)	30000hrs	50000hrs
	Pixel Pitch (HxV)	0.3x0.3	0.213 x 0.213
	Luminance(cd/m2)	500cd/ m2	350cd/ m2
	Contrast Ratio	1000:1	
	Viewing Angle	(L) 89/ (R) 89/ (U) 89/ (D) 89	
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	-30~80°C
	Storage Temperature	-20~70°C	-30~80°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	

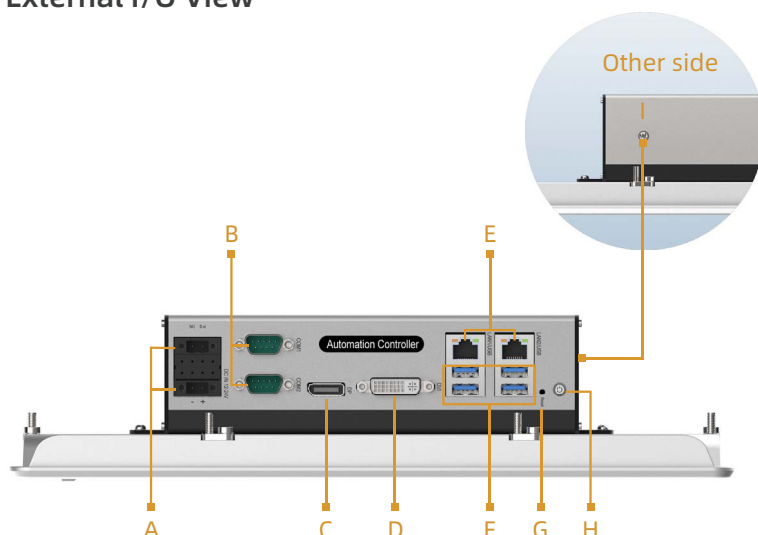
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Technical Drawings unit: mm



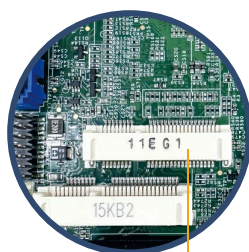
Panel Cutout Dimensions: 452mm x 292mm (17.80 x 11.50 in)

External I/O View



Interface definition:

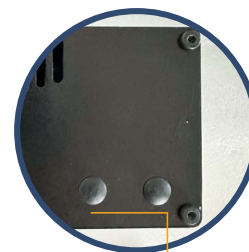
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|------------------|-----------------|
| A: DC 12~24V | F: 4 X USB3.0 |
| B: 2 x RS232/485 | G: Reset |
| C: DP | H: Power Switch |
| D: DVI | I : GND |
| E: 2 x RJ45 | |



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

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Ordering Information

Part Number	Description
IPC21185-4400K-4G-128G	18.5" TFT LCD / Resistive touch screen / No extension button / DC 12~24V Input / Resolution 1366x768 / Intel®Pentium G4400 / 4G RAM / 128G mSATA/2xLAN / 4xUSB / 1xDVI
IPC22185-4400K-4G-128G	18.5" TFT LCD / Capacitive touch screen / No extension button / DC 12~24V Input / Resolution 1366x768 / Intel®Pentium G4400 / 4G RAM / 128G mSATA/2xLAN / 4xUSB / 1xDVI
IPC24185-4400K-4G-128G	18.5" TFT LCD / Tempered glass screen / No extension button / DC 12~24V Input / Resolution 1366x768 / Intel®Pentium G4400 / 4G RAM / 128G mSATA/2xLAN / 4xUSB / 1xDVI
IPC21185H-4400K-4G-128G	18.5" TFT LCD / Resistive touch screen / No extension button / DC 12~24V Input / Resolution 1920x1080 / Intel®Pentium G4400 / 4G RAM / 128G mSATA/2xLAN / 4xUSB / 1xDVI
IPC22185H-4400K-4G-128G	18.5" TFT LCD / Capacitive touch screen / No extension button / DC 12~24V Input / Resolution 1920x1080 / Intel®Pentium G4400 / 4G RAM / 128G mSATA/2xLAN / 4xUSB / 1xDVI
IPC24185H-4400K-4G-128G	18.5" TFT LCD / Tempered glass screen / No extension button / DC 12~24V Input / Resolution 1920x1080 / 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, (7260HMBN) Cylindrical antenna	
4G set/EC203G module	miniPCle	

Packing List

Terminal	2x3pin phoenix terminal
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Note: Package contents are subject to change without prior notice