

Powerful. Beautiful.

Excellence · Innovation

IPC22185EX



Shanghai Panelmate Electronics Co., Ltd.

18.5" WXGA Industrial ATEX-Ex Panel PC

PanelMate's ATEX products have passed
ATEX EU explosion-proof certification



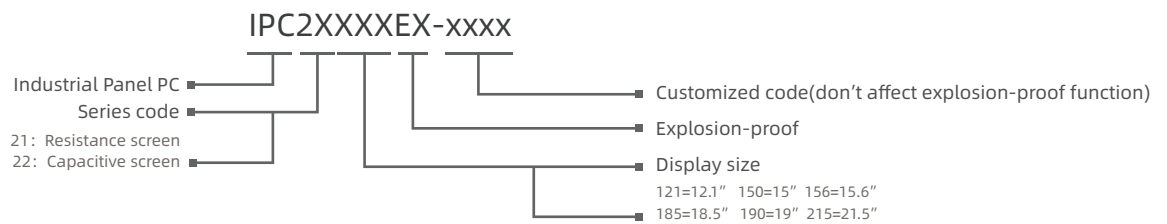
PANELMATE
Creative HMI Solution



Features

- Passed the ATEX-Ex EU protection certificate
- Display size: 12.1",15",15.6",18.5",19",21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP65
- Screen Type: Multi-point capacitive touchscreen
- OS: Win7, Win8, Win10, Win11, Linux, etc
- Equipped with 2xIntel i210AT Gigabit network cards, 4xUSB ports
- Processor: Intel® Core™ 6/7/10/11/12/13th i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

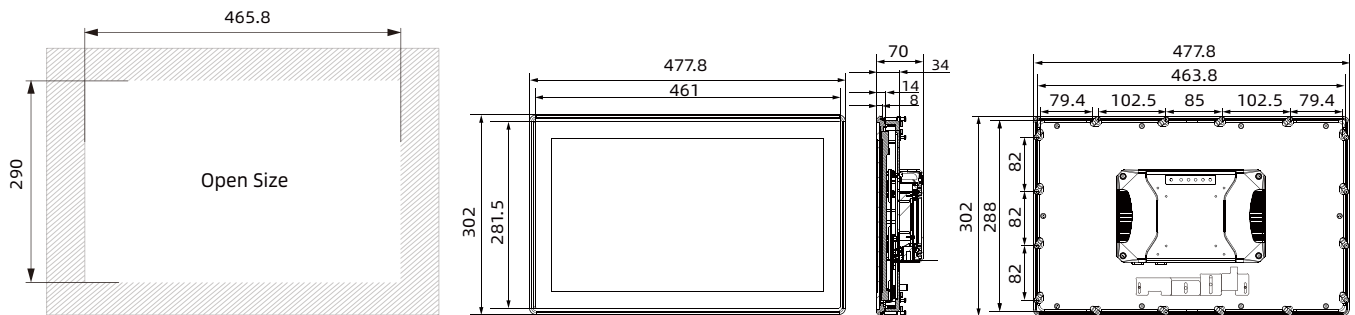
Namely Rule



Specifications

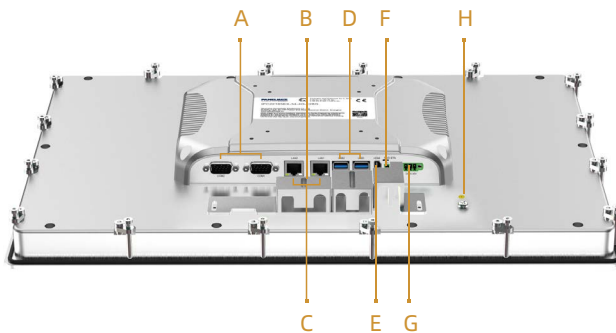
Model	IPC22185EX				
Processor	CPU	Intel®Celeron® processor 3855U/3865	Intel®Core™i3 processor	Intel®Core™i5 processor	Intel®Core™i7 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ	Dual Core 3.1GHZ
	Cache	2MB	3MB	3MB	4MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0+1 x mSATA			
I/O	Network (LAN)	2xR5232/R5485 with surge protection, R5485 support automatic flow control			
	Audio	1xMin-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot			
	USB	4xUSB3.0			
	COM	2xR5232/R5485 with surge protection, R5485 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			
Routine	Product Attribute	Built-in aluminium magnesium explosion-proof control panel PC			
	Housing	Front panel & back cover:Aluminium-magnesium alloy			
	Mounting	Embedded, VESA 100 with waterproof nut			
	Video port	HDMI			
Power	Input Voltage	DC 9~36V input			
	Power	41W			
Physical	Dimension (WxHxD)	477.8mm x 302mm x 70mm (18.81" x 11.89" x 2.76")			
	Open Size (WxH)	465.8mm x 290mm (18.34" x 11.42")			
	Net Weight(kg)	6.4kg			
LED	Display Type	18.5" WXGA TFT			
	Resolution	1366 x 768			
	Colors	16.7M			
	Active Area (WxH)	409.8mm x 230.4mm (16.13" x 9.07")			
	Backlight	LED			
	MTBF (hour)	30000hrs			
	Pixel Pitch (HxV)	0.3 x 0.3			
	Luminance(cd/m2)	500cd/m2			
	Contrast Ratio	1000:1			
Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89				
Touchscreen	Touch Type	Multi-point capacitive touchscreen			
	Light Transmission	>85%			
	Controller	USB interface			
	Driver Support	Windows7, Window8, Windows10, Windows11, Linux, etc			
	Multi-touch	10 points			
Environment	Surface Hardness	Capacitive touchscreen: Mohs' Number 7H			
	Operating Temperature	0 ~ 55°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			
Certification	Protection	IP65			
		II 3 G Ex ec IIC T4 Gc			
		II 3 D Ex tc IIIC T135°C Dc			
		EN 60079-0:2018 EN 60079-7:2015 EN 60079-31:2014			

Technical Drawings unit: mm



Panel Cutout Dimensions: 465.8 x 290mm (18.34 x 11.42in)

External I/O View



Interface definition:

- A: 2 x COM (RS232/RS485)
- B: Audio output
- C: 2 x LAN
- D: 4 x USB
- E: 1 x HDMI
- F: Power switch
- G: DC IN
- H: GND

Ordering Information

Part Number	Description
IPC22185EX	18.5" TFT LCD / ATEX Capacitive touch panel PC / DC9~36V Input / Resolution 1366x768 / Intel®Celeron®3855U / 4G RAM / 128G / mSATA / 2xLAN / 4xUSB / 1xHDMI

Optional Accessories

mSATA	128G / 256G / 512G / 1T
2.5" HDD	512G / 1T / 2T
RAM	4G / 8G / 16G / 32G

Packing List

Terminal	2-pin terminal
Terminal	3-pin terminal

Note: Package contents are subject to change without prior notice