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IPC22121EX



Shanghai Panelmate Electronics Co., Ltd.

12.1" XGA Industrial ATEX-Ex Panel PC

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



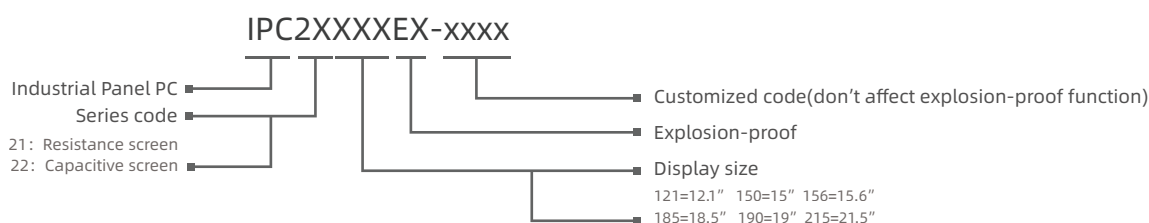
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Features

- 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™ 6/7/10/11/12/13代 i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

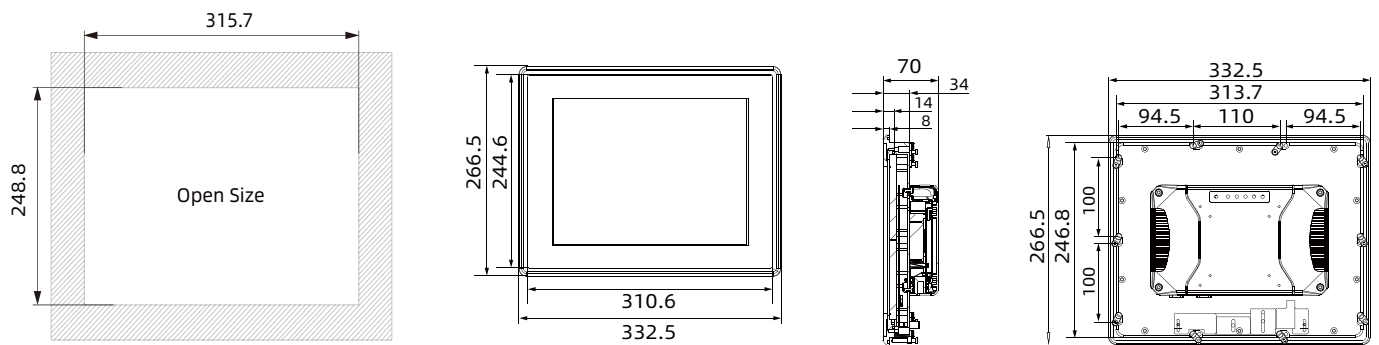
Namely Rule



Specifications

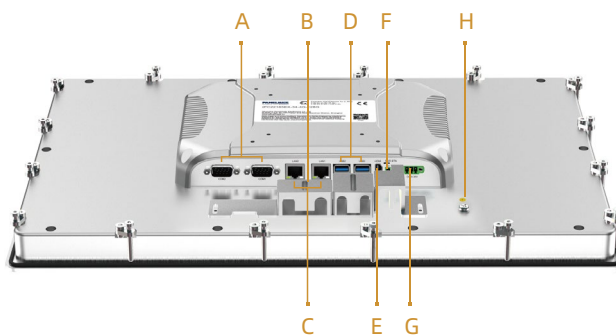
Model	IPC22121EX				
Processor	CPU	Intel®Celeron® processor 3855U/3865	Intel®Core™i3 processor	Intel®Core™i5 processor	Intel®Core™i7 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ	Dual Core 3.1GHZ
	Cache	2MB	3MB	3MB	4MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0+1 x mSATA			
I/O	Network (LAN)	2xIntel i210 1000Mbps RJ45 with surge protection			
	Audio	Realtek ALC662VD audio controller,support 5.1 channels			
	USB	4xUSB3.0			
	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			
Routine	Product Attribute	Built-in aluminium magnesium explosion-proof control display			
	Housing	Front panel & back cover:Aluminium-magnesium alloy			
	Mounting	Embedded, VESA 100 with waterproof nut			
	Rear I/O	HDMI			
Power	Input Voltage	DC 9~36V input			
	Power	34W			
Physical	Dimension (WxHxD)	332.5mm x 266.6mm x 70mm (13.09" x 10.49" x 2.76)			
	Open Size (WxH)	315.7mm x 248.8mm (12.43" x 9.80")			
	Net Weight(kg)	3.6kg			
LED	Display Type	12.1" XGA TFT			
	Resolution	1024 x 768			
	Colors	16.7M			
	Active Area (WxH)	304.1mm x 228.1mm (11.97" x 8.98")			
	Backlight	LED			
	MTBF (hour)	50000hrs			
	Pixel Pitch (HxV)	0.24 x 0.24			
	Luminance(cd/m2)	350cd / m2			
Touchscreen	Contrast Ratio	800:1			
	Viewing Angle	(L)75 / (R)75 / (U)75 / (D)75			
	Touch Type	Multi-point capacitive touchscreen			
	Light Transmission	>85%			
	Controller	USB interface			
	Driver Support	Windows7, Window8, Windows10, Windows11, Linux, etc			
Environment	Multi-touch	10 points			
	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			
Certification	EMC	CE/FCC Class A			
	Protection	IP65			
		II 3 G Ex ec IIC T4 Gc			
		II 3 D Ex tc IIIC T135°C Dc			
		EN 60079-0:2018			

Technical Drawings unit: mm



Panel Cutout Dimensions: 315.7x 248.8mm (12.43 x 9.80in)

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
IPC22121EX	12.1" TFT LCD / ATEX Capacitive touch panel PC / DC9~36V Input / Resolution 1024x768 / 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

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IPC22150EX



Shanghai Panelmate Electronics Co., Ltd.

15" XGA Industrial ATEX-Ex Panel PC

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ATEX EU explosion-proof certification



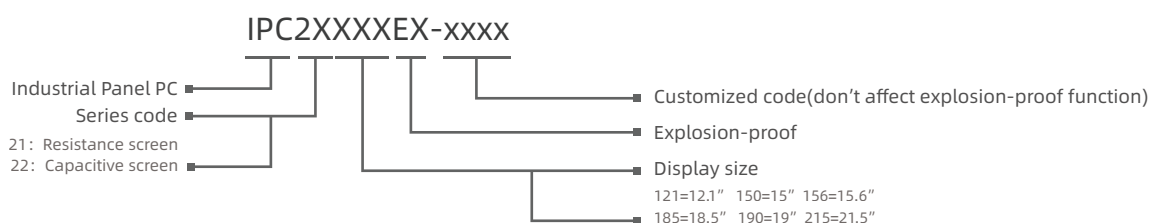
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Features

- 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™ 6/7/10/11/12/13代 i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

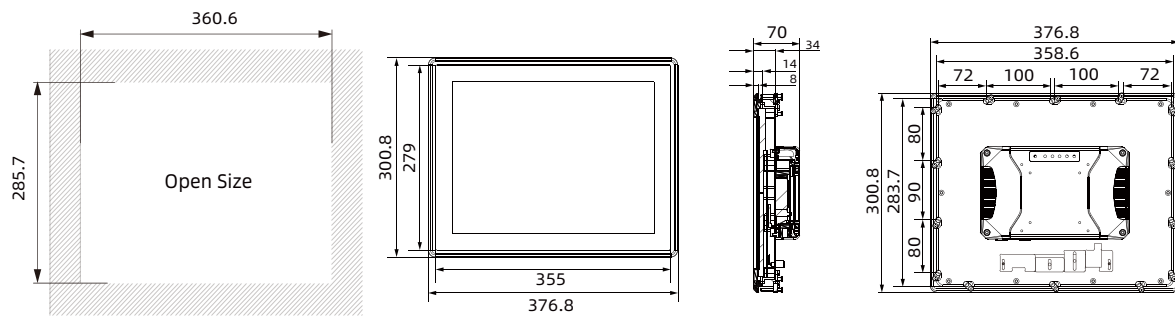
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Specifications

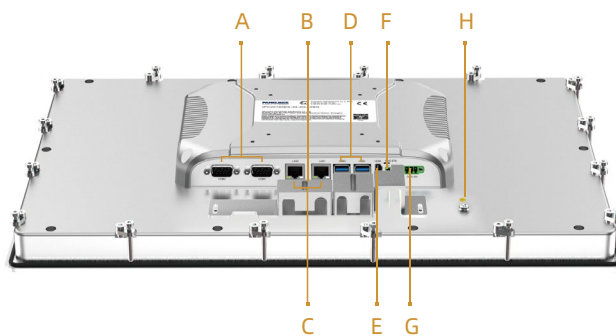
Model	IPC22150EX			
Processor	CPU	Intel®Celeron® processor 3855U/3865	Intel®Core™i3 processor	Intel®Core™i5 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ
	Cache	2MB	3MB	3MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0 +1 x mSATA		
I/O	Network (LAN)	2xRS232/RS485 with surge protection, RS485 support automatic flow control		
	Audio	1xMin-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot		
	USB	4xUSB3.0		
	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		
Routine	Rear I/O	1xHDMI/ 2xGLAN/4xUSB/ 2xCOM/ AUDIO/ DC IN/Power Switch		
	Product Attribute	Built-in aluminium magnesium explosion-proof control display		
	Housing	Front panel & back cover:Aluminium-magnesium alloy		
Power	Mounting	Embedded, VESA 100 with waterproof nut		
	Rear I/O	HDMI		
	Input Voltage	DC 9~36V input		
Physical	Power	36W		
	Dimension (WxHxD)	376.8mm x 300.8mm x 70mm (14.83" x 11.84" x 2.76")		
	Open Size (WxH)	360.6mm x 285.7mm (14.20" x 11.25")		
LED	Net Weight(kg)	5.6kg		
	Display Type	15" XGA TFT		
	Resolution	1024 x 768		
	Colors	16.7M		
	Active Area (WxH)	304.1mm x 228.1mm (11.97" x 8.98")		
	Backlight	LED		
	MTBF (hour)	50000hrs		
	Pixel Pitch (HxV)	0.297 x 0.297		
	Luminance(cd/m2)	420cd/m2		
	Contrast Ratio	800:1		
Touchscreen	Viewing Angle	(L)80 / (R)80 / (U)80 / (D)80		
	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: 360.6 x 285.7mm (14.20 x 11.25in)

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
IPC22150EX	15" TFT LCD / ATEX Capacitive touch panel PC / DC9~36V Input / Resolution 1024x768 / 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

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IPC22156EX



Shanghai Panelmate Electronics Co., Ltd.

15.6" WXGA Industrial ATEX-Ex Panel PC

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ATEX EU explosion-proof certification



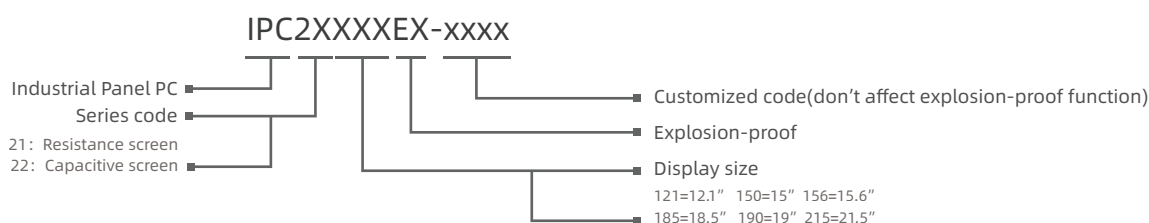
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Features

- 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 2x Intel i210AT Gigabit network cards, 4x USB ports
- Processor: Intel® Core™ 6/7/10/11/12/13代 i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

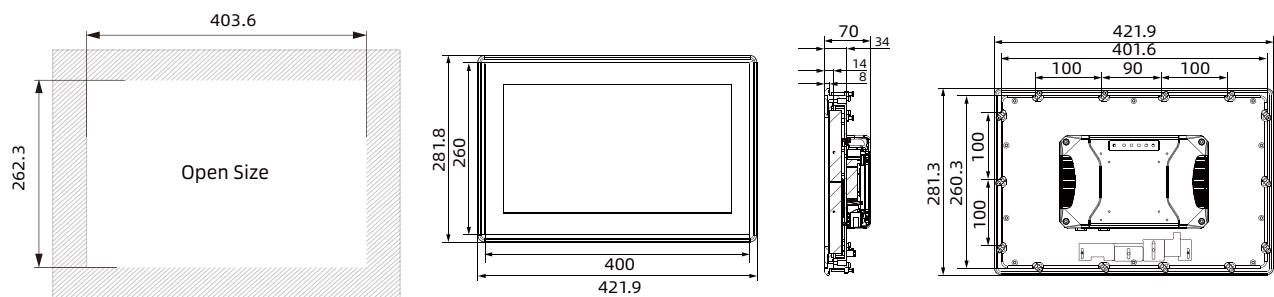
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Specifications

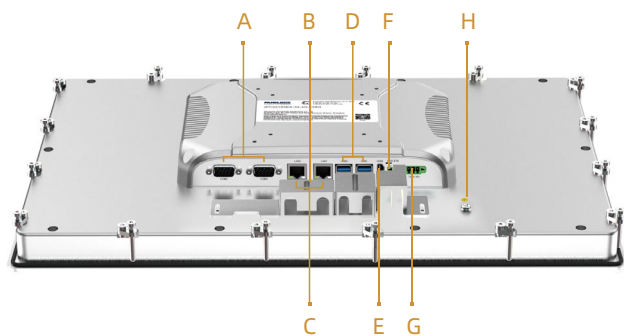
Model	IPC22156EX				
Processor	CPU	Intel®Celeron® processor 3855U/3865	Intel®Core™i3 processor	Intel®Core™i5 processor	Intel®Core™i7 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ	Dual Core 3.1GHZ
	Cache	2MB	3MB	3MB	4MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0+1 x mSATA			
I/O	Network (LAN)	2xRS232/RS485 with surge protection, RS485 support automatic flow control			
	Audio	1xMin-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot			
	USB	4xUSB3.0			
	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			
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			
	Rear I/O	HDMI			
Power	Input Voltage	DC 9~36V input			
	Power	43W			
Physical	Dimension (WxHxD)	421.9mm x 281.8mm x 70mm (16.61" x 11.09" x 2.76")			
	Open Size (WxH)	403.6mm x 262.3mm (15.89" x 10.33")			
	Net Weight(kg)	5.85kg			
LED	Display Type	15.6" WXGA TFT			
	Resolution	1366 x 768			
	Colors	16.7M			
	Active Area (WxH)	344.23mm x 193.54mm (13.55" x 7.62")			
	Backlight	LED			
	MTBF (hour)	50000hrs			
	Pixel Pitch (HxV)	0.252 x 0.252			
	Luminance(cd/m2)	300cd/m2			
	Contrast Ratio	500:1			
Touchscreen	Viewing Angle	(L)85 / (R)85 / (U)85 / (D)85			
	Touch Type	Multi-point capacitive touchscreen			
	Light Transmission	>85%			
	Controller	USB interface			
	Driver Support	Windows7, Windows8, Windows10, Windows11, Linux, etc			
	Multi-touch	10 points			
	Surface Hardness	Capacitive touchscreen: Mohs' Number 7H			
Environment	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: 403.6 x 262.3mm (15.89 x 10.33in)

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
IPC22156EX	15.6" 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

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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



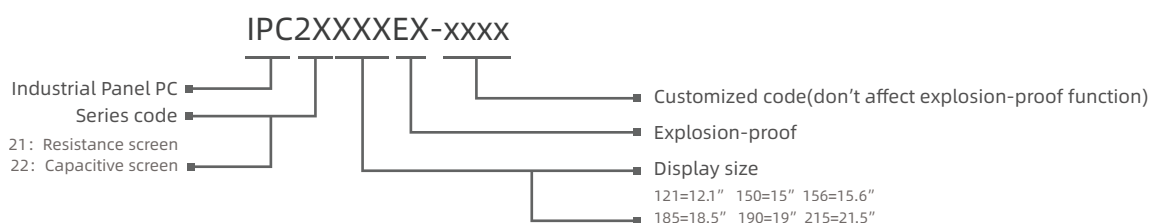
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Features

- 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 2x Intel i210AT Gigabit network cards, 4x USB ports
- Processor: Intel® Core™ 6/7/10/11/12/13代 i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

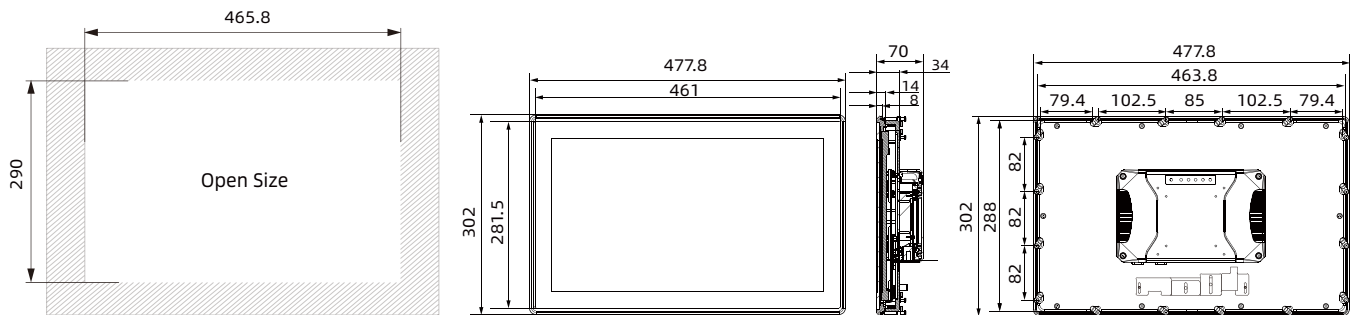
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Specifications

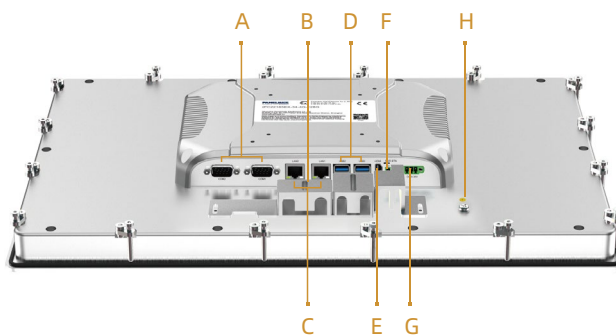
Model	IPC22185EX			
Processor	CPU	Intel®Celeron® processor 3855U/3865	Intel®Core™i3 processor	Intel®Core™i5 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ
	Cache	2MB	3MB	3MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0+1 x mSATA		
I/O	Network (LAN)	2xRS232/RS485 with surge protection, RS485 support automatic flow control		
	Audio	1xMin-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot		
	USB	4xUSB3.0		
	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		
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		
	Rear I/O	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		
Touchscreen	Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89		
	Touch Type	Multi-point capacitive touchscreen		
	Light Transmission	>85%		
	Controller	USB interface		
	Driver Support	Windows7, Windows8, 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

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IPC22190EX



Shanghai Panelmate Electronics Co., Ltd.

19" SXGA Industrial ATEX-Ex Panel PC

PanelMate's ATEX products have passed
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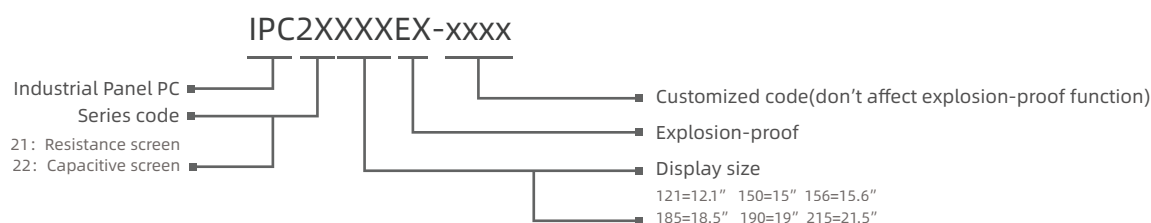
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Features

- 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 2x Intel i210AT Gigabit network cards, 4x USB ports
- Processor: Intel® Core™ 6/7/10/11/12/13代 i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

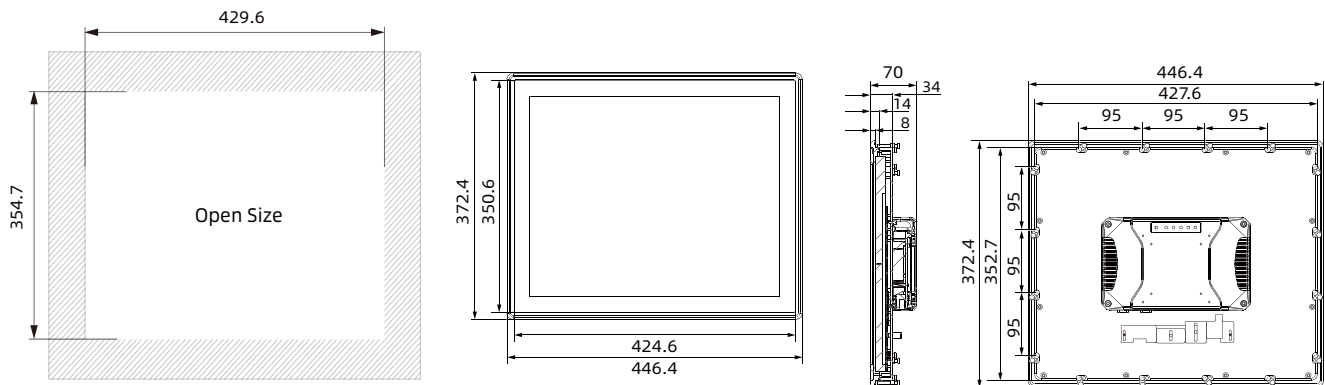
Namely Rule



Specifications

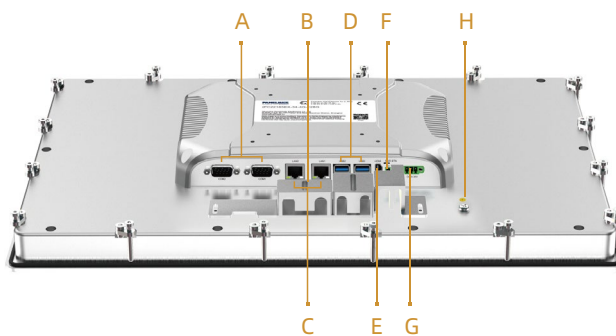
Model	IPC22190EX				
Processor	CPU	Intel®Celeron® processor 3855U/3865	Intel®Core™i3 processor	Intel®Core™i5 processor	Intel®Core™i7 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ	Dual Core 3.1GHZ
	Cache	2MB	3MB	3MB	4MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0+1 x mSATA			
I/O	Network (LAN)	2xRS232/RS485 with surge protection, RS485 support automatic flow control			
	Audio	1xMin-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot			
	USB	4xUSB3.0			
	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			
Routine	Rear I/O	1xHDMI/2xGLAN/4xUSB/2xCOM/AUDIO/DC IN/Power Switch			
	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			
	Rear I/O	HDMI			
Power	Input Voltage	DC 9~36V input			
	Power	39W			
Physical	Dimension (WxHxD)	446.4mm x 372.4mm x 70mm (17.57" x 14.66" x 2.76")			
	Open Size (WxH)	429.6mm x 354.7mm (16.91" x 13.96")			
	Net Weight(kg)	7.05kg			
LED	Display Type	19" SXGA TFT			
	Resolution	1280 x 1024			
	Colors	16.7M			
	Active Area (WxH)	376.32mm x 301.06mm (14.82" x 11.85")			
	Backlight	LED			
	MTBF (hour)	30000hrs			
	Pixel Pitch (HxV)	0.294 x 0.294			
	Luminance(cd/m2)	250cd/m2			
Touchscreen	Contrast Ratio	1000: 1			
	Viewing Angle	(L)85 / (R)85 / (U)80 / (D)80			
	Touch Type	Multi-point capacitive touchscreen			
	Light Transmission	>85%			
	Controller	USB interface			
	Driver Support	Windows7, Window8, Windows10, Windows11, Linux, etc			
Environment	Multi-touch	10 points			
	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			
Certification	EMC	CE/FCC Class A			
	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: 429.6 x 354.7mm (16.91 x 13.96in)

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
IPC22190EX	19" TFT LCD / ATEX Capacitive touch panel PC / DC9~36V Input / Resolution 1280 x1024 / 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

Powerful. Beautiful.

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IPC22215EX



Shanghai Panelmate Electronics Co., Ltd.

21.5" FHD Industrial ATEX-Ex Panel PC

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



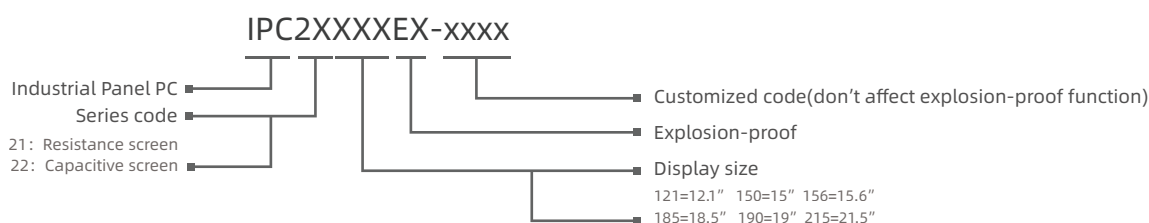
PANELMATE
Creative HMI Solution



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 2x Intel i210AT Gigabit network cards, 4x USB ports
- Processor: Intel® Core™ 6/7/10/11/12/13代 i3/i5/i7 multiple CPU optional
- Extendable WIFI/4G
- DC 9~36V

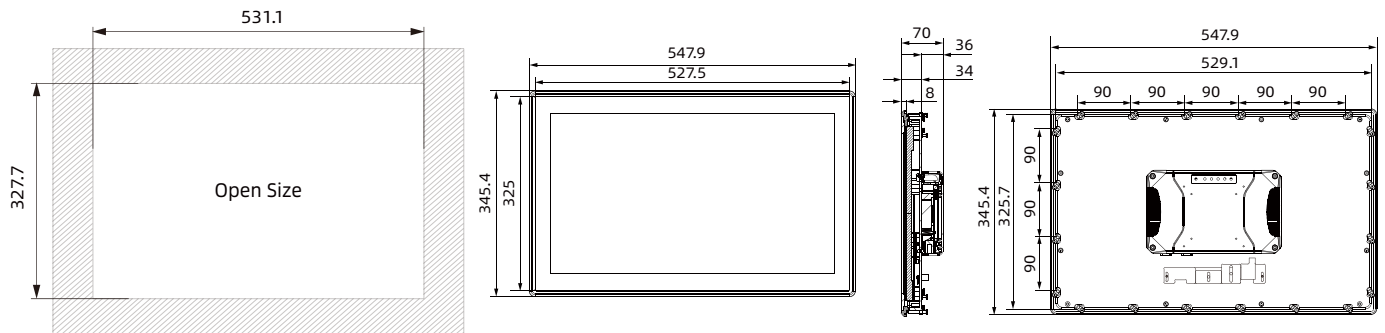
Namely Rule



Specifications

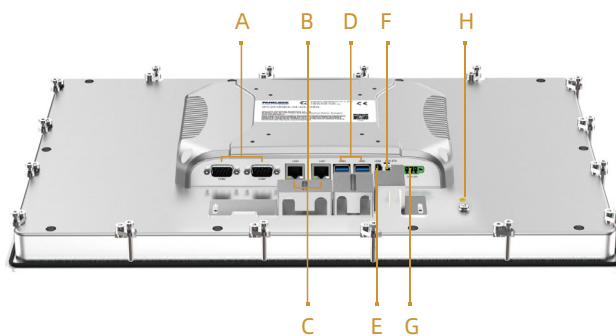
Model	IPC22215EX				
Processor	CPU	Intel® Celeron® processor 3855U/3865	Intel® Core™ i3 processor	Intel® Core™ i5 processor	Intel® Core™ i7 processor
	Frequency	Dual Core 1.6GHZ	Dual Core 2.3GHZ	Dual Core 2.8GHZ	Dual Core 3.1GHZ
	Cache	2MB	3MB	3MB	4MB
	Memory	DDR4-1866/2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB	DDR4-2133 Max: 32GB
	Storage	1x2.5" SATA 3.0 + 1 x mSATA			
I/O	Network (LAN)	2x RS232/RS485 with surge protection, RS485 support automatic flow control			
	Audio	1x Min-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot			
	USB	4x USB3.0			
	COM	2x RS232/RS485 with surge protection, RS485 support automatic flow control			
	Expansion Slot	1x Min-Pcie X1, Support 4G LTE/WIFI/BT with Sim card slot			
Routine	Rear I/O	1x HDMI/2x GLAN/4x USB/2x COM/AUDIO/DC IN/Power Switch			
	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			
Power	Input Voltage	DC 9~36V input			
	Power	45W			
Physical	Dimension (WxHxD)	547.9mm x 345.4mm x 70mm (21.57" x 13.60" x 2.76")			
	Open Size (WxH)	531.1mm x 327.7mm (20.91" x 12.90")			
	Net Weight (kg)	7.1kg			
LED	Display Type	21.5" FHD TFT			
	Resolution	1920 x 1080			
	Colors	16.7M			
	Active Area (WxH)	476.64mm x 268.11mm (18.77" x 10.56")			
	Backlight	LED			
	MTBF (hour)	30000hrs			
	Pixel Pitch (HxV)	0.24825 x 0.24825			
	Luminance (cd/m2)	300cd/m2			
	Contrast Ratio	500:1			
Touchscreen	Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89			
	Touch Type	Multi-point capacitive touchscreen			
	Light Transmission	>85%			
	Controller	USB interface			
	Driver Support	Windows7, Windows8, 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: 531.1 x 327.7mm (20.91 x 12.90in)

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
IPC22215EX	21.5" TFT LCD / ATEX Capacitive touch panel PC / DC9~36V Input / Resolution 1920x1080 / 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