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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



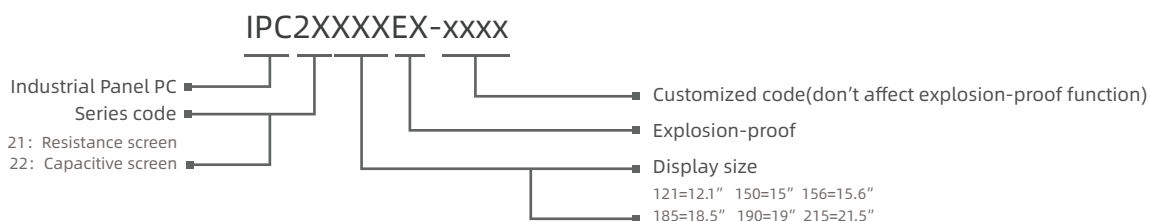
PANELMATE
Creative HMI Solution



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

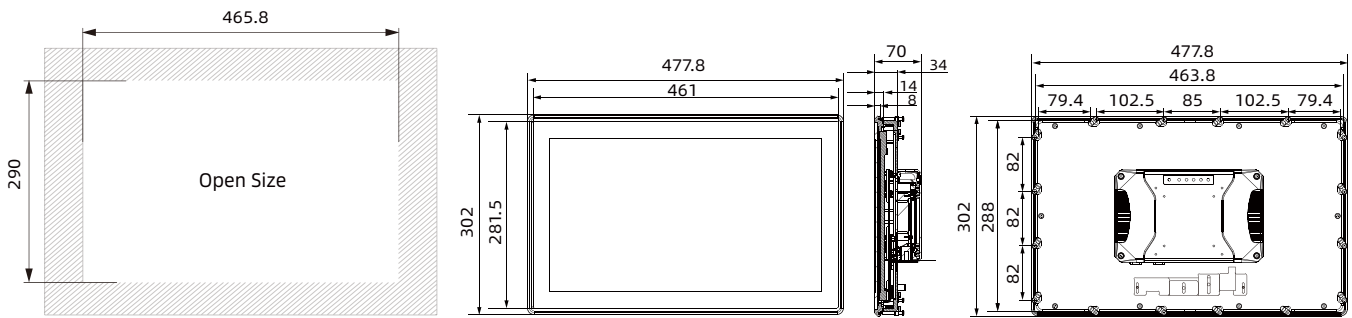
Namely Rule



Specifications

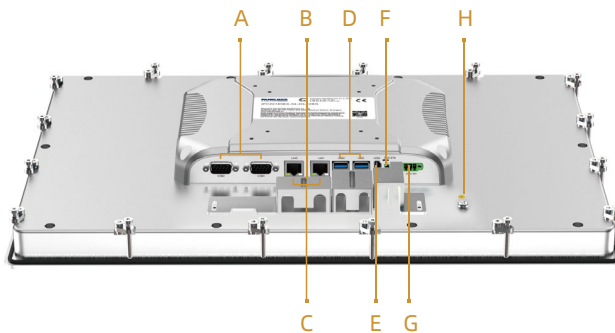
| Model | IPC22185EX | | | | |
|---------------|-------------------------------|---|-------------------------|-------------------------|-------------------------|
| Processor | CPU | Intel®Celeron® processor 3855U/3865 | Intel®Core™i3 processor | Intel®Core™i5 processor | Intel®Core™i7 processor |
| | 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 | | | |
| | 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 | | | |
| 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