ABPanelPC®

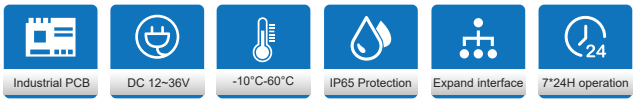
Industrial, Rugged, Reliable

# AB238-M200

Introducing the IMD 2nd Gen Series: our latest innovation in rugged computing, forged with an aluminum alloy body for unparalleled durability. Designed to excel beyond kiosks, it integrates seamlessly into manufacturing lines, control systems, and communications infrastructure, delivering reliable, energy-efficient operation in even the most challenging environments. Compact and robust, this series is the definitive industrial computing solution.

## Features

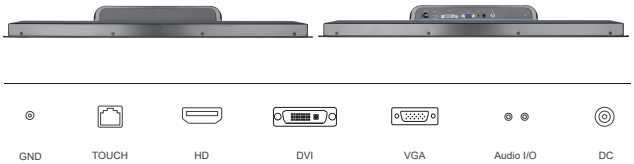
- Meets EMC standards for robust electromagnetic interference resistance.
- Industrial-grade quality, supporting a range of customization options.
- Upgradeable to a 1000+ nit display for superior visibility in bright environments.
- Optional auto-brightness sensor for real-time luminance adjustment.
- Automatically detects VGA, DVI, and HDMI inputs for versatile connectivity.
- Flexible installation configurations: desktop, wall-mounted, Open Frame, Panel Mount, cantilevered setups.



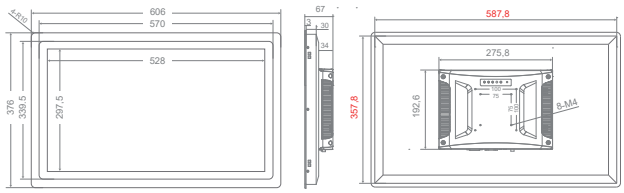
## Product Model

| | |
|---|---|
| Product Size | 23.8" |
| Non-touch | AB238-M200 |
| Capacitive touch | AB238-M210 |
| Resistive touch | AB238-M220 |

## Product Interface




## Product Size




## Product Specifications

### Screen Parameters

| | |
|---|---|
| LCD size | 23.8" TFT LCD |
| Resolution | 1920*1080 |
| Viewing angle | 89/89/89/89 (L/R/U/D) |
| Colour | 16.7M |
| Brightness | 250 cd/m² |
| Contrast ratio | 1000:1 |

### Touch Parameters

| | | | |
|---|---|---|---|
| Touch type | 10-point touch projection Capacitive touch screen | Single-point Resistance touch screen | Non-touch |
| Transmittance | ≥88% | ≥78% | ≥92% |
| Input mode | Handwriting or Capacitance pen | Fingertip or stylus | / |
| Controller communication | USB | USB | / |

### Physical Characteristics

| | |
|---|---|
| Overall dimensions | W606x H376x D67mm |
| Size of opening | W589.8x H359.8mm |

### Interface Parameters

| | |
|---|---|
| Grounding column | Support (1*GND) |
| Power interface | 1*DC2.1, Support 12V-36V wide voltage power supply |
| HDMI | 1*HDMI, Support HDMI data input, With a maximum of 1080P |
| Touch interface | 1*TOUCH (RJ45) |
| VGA | 1*VGA, Analog signal transmission |
| DVI | 1*DVI, Digital signal transmission |
| Audio interface | 1*Audio I/O, Support audio input and output |

### Product Reliability Parameters

| | |
|---|---|
| Working temperature | -10°C~60°C |
| Storage temperature | -20°C~70°C |
| Relative humidity | Humidity: 95% Non-Condensing |
| Vibration protection | IEC 60068-2-64, Random, 5 ~ 500 Hz, 1 hr/axis |
| Impact protection | IEC 60068-2-27, Half sine wave, Lasting for 11ms |
| Product certification | CCC/CE/FCC/EMC/CB/ROHS |
| Waterproof grade | The front panel reaches IP65 protection level |

### Power Parameters

| | |
|---|---|
| Power input | DC 12V~36V |
| Static power | 18W |

### Hardware Configuration

| | | | |
|---|---|---|---|
| CPU | RTD2513 | System language | Multilingual (default: English) |
| Key function | AUTO/MENU/POWER/LEFT/RIGHT | Video input | PC-RGB:Format Up to 1920*1080@60HZ Color 16bit/24bit/32bit |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