

Features

- 21.5" New Generation Stainless Steel Panel PC
- Intel Celeron J6412 Processors
- True Flat Front Bezel Design and Grade 304 Stainless Steel Enclosure (Grade 316 for Option)
- IP66/IP69K Rated with M12 Connectors
- Ultra Slim Front Frame Design
- Special Hygienic Bolts on Rear Case
- Waterproof Wireless Antenna Covers to Solve the Bend Damage and Easy to Clean
- Support Ergonomic Versatile Mounting:  
VESA Mount 100 x 100 / Floor Stand / Swing ARM

Specifications

| System         |   |
|----------------|---|
| CPU            | Intel Celeron J6412 (2.0GHz) Processor      |
| System Chipset | SoC   |
| Memory         | 1 x 260-pin SO-DIMM up to 32GB DDR4 3200MHz |
| TPM            | TPM 2.0                                     |

| IO Port           |  |
|-------------------|--|
| USB               | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover  |
| Serial / Parallel | 1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover  |
| LAN               | 1 x M12 8-pin for LAN with waterproof cover  |
| Power Connector   | 1 x M12 3-pin for DC power with waterproof cover<br>1 x Power switch on the rear   |
| Option            | 2 x optional blank M12 connector with waterproof cover for selecting two from the following options:<br>2 x USB 2.0<br>1 x USB 3.2 Gen.1<br>1 x LAN<br>1 x COM |

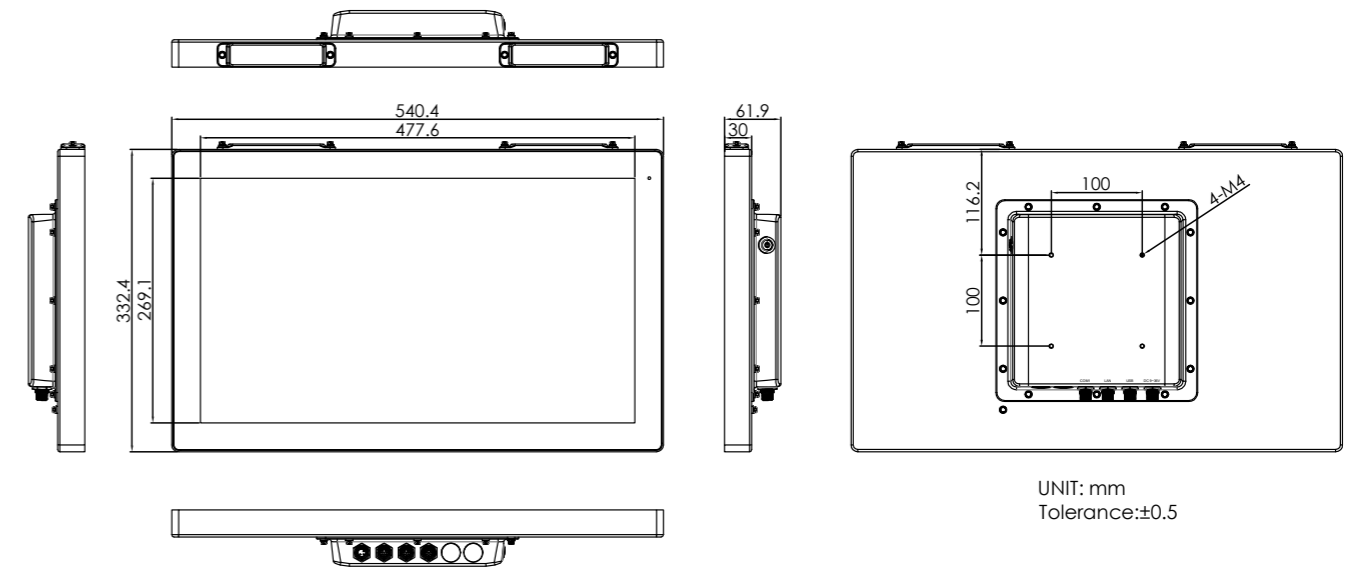
| Storage Space |   |
|---------------|---|
| M.2           | 1 x M.2 B-Key 2242/2280 for SSD (SATA3) |

| Expansion      |   |
|----------------|---|
| Expansion slot | 1 x Full-size mini PCIe slot for 4G/5G<br>1 x Micro SIM slot<br>1 x M.2 E-Key 2230 for WiFi/BT module |
| RFID module    | RFID module design on the front side (for option)   |

| Display                        | Standard       | High Brightness Optional |
|--------------------------------|----------------|--------------------------|
| Display Type                   | 21.5" TFT-LCD  | 21.5" TFT-LCD            |
| Max. Resolution                | 1920 x 1080    | 1920 x 1080              |
| Max. Color                     | 16.7M          | 16.7M                    |
| Luminance (cd/m <sup>2</sup> ) | 250            | 1000                     |
| View Angle                     | 178(H) /178(V) | 178(H) /178(V)           |
| Contrast                       | 1000:1         | 3000:1                   |
| Backlight Lifetime             | 50,000 hrs     | 50,000 hrs               |

| Touch Screen          |                            |
|-----------------------|----------------------------|
| Type                  | Projected Capacitive Touch |
| Interface             | USB                        |
| Light Transmission(%) | 90%                        |

Dimensions



| Power             |                       |
|-------------------|-----------------------|
| Power Input       | DC 9~36V              |
| Power Consumption | PhanTAM-821BP: 39.84W |

| Mechanical   |   |
|--------------|---|
| Construction | 304 Stainless Steel Chassis (default), 316 Stainless Steel Chassis (optional) |
| Mounting     | VESA Mount 100 x 100, Floor Stand / Swing ARM (optional)                      |
| IP Rating    | Total IP66/IP69K  |
| Dimensions   | 540.4 x 332.4 x 61.9 mm   |
| Net Weight   | 7.88 kg   |

| Environmental         |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | 0~50°C (WT1: -20~60°C for optional) |
| Storage Temperature   | -30~70°C                            |
| Humidity              | 10 to 90% @ 40°C, non-condensing    |
| Certificate           | CE/FCC Class A                      |

| Operating System Support            |  |
|-------------------------------------|--|
| Windows 10 IoT ENT LTSB, Windows 11 |  |

| Ordering Information |  |
|----------------------|--|
| PhanTAM-821BP        | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel Celeron J6412 Processors, 1 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter            |
| PhanTAM-821BPH       | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel Celeron J6412 Processors, 1 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits |