

Features

- 21.5" Food Industrial Panel PC
- Intel Celeron N2930 Processor
- Onboard 4GB DDR3L 1333 MHz
- Flat and stainless steel front panel design
- Fanless design
- Wide range DC 9~36V power input

Specifications

| System         |   |
|----------------|---|
| CPU            | Onboard Intel Celeron N2930 Processor (2M Cache, 1.83GHz) |
| System Chipset | SoC   |
| Memory         | Onboard 4GB DDR3L SDRAM                                   |

| IO Port           |  |
|-------------------|--|
| USB               | 2 x USB 3.0 type A   |
| Serial / Parallel | 1 x RS-232/422/485 DB-9, default RS-232(COM1)<br>1 x RS-232 DB-9(COM2)           |
| LAN               | 2 x GbE LAN RJ-45  |
| Audio             | 1 x Line Out   |
| Power             | 1 x 3-pin DC Power input terminal<br>1 x 2-pin connector for power on/off button |

|        |   |
|--------|---|
| Option | VESA Stand<br>4G LTE/Wi-Fi/BT<br>4 x USB 2.0 (TB-528U4)<br>4 x USB 2.0 + 1 x Mini PCIe + 1 SIM slot (TB-528U4ME1)<br>1 x COM + 2 x USB 2.0 (TB-528C1U2)<br>1 x COM + 2 x USB 2.0 + 1 x Mini PCIe + 1 x Power Button (TB-528C1U2P1)<br>2 x COM(RS-232) (TB-528C2)<br>2 x COM(RS-232) + 1 x Mini PCIe slot + 1 x SIM slot (TB-528C2ME1)<br>2 x COM(RS-422/485, isolated) (TB-528C2I)<br>2 x CAN (TB-528CAN2)<br>1 x LAN + 2 x USB 2.0 (TB-528E1U2)<br>1 x LAN + 2 x USB 2.0, 45W PoE (TB-528E1U2UPOE)<br>UPS Battery 21W/10.8W/1.95Ah(3S1P)<br>System is only allowed to build in either TB-528 PoE series or UPS battery |
|--------|---|

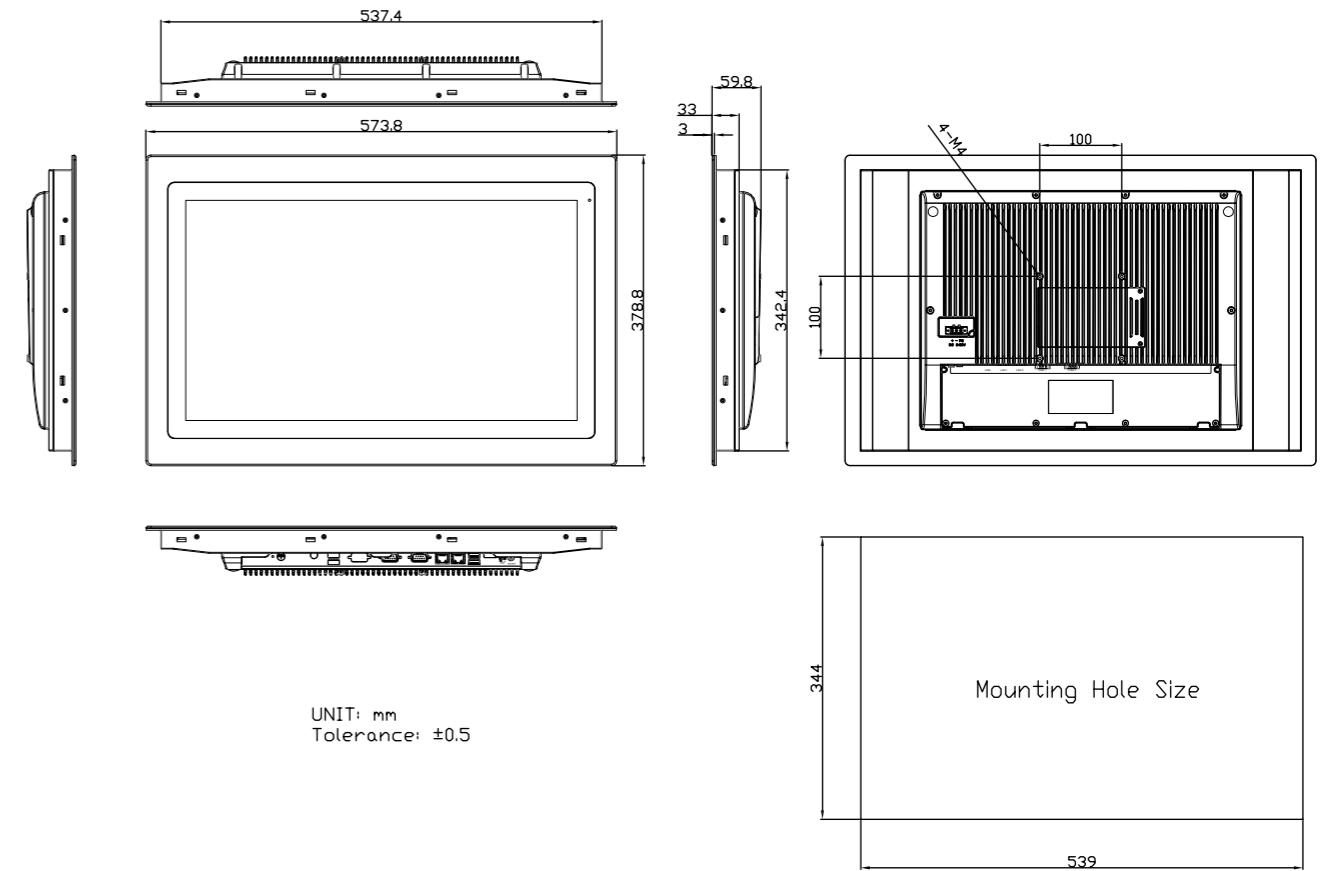
| Storage Space |   |
|---------------|---|
| HDD/SSD       | 1 x 2.5" SATA HDD/SSD bay (Easy Accessible) |
| Others        | 1 x Internal Micro SD / Micro SIM slot      |

| Expansion      |                                       |
|----------------|---------------------------------------|
| Expansion Slot | 1 x Internal Mini-PCIe slot full size |

| 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                       | 3000:1         | 3000:1                   |
| Backlight Lifetime             | 30,000 hrs     | 50,000 hrs               |

| Touch Screen          |  |
|-----------------------|--|
| Type                  | Projected Capacitive Touch (for P model)<br>Resistive Touch (for R model)<br>Glass (for G model) |
| Interface             | USB  |
| Light Transmission(%) | Resistive Touch: over 80%<br>Projected Capacitive Touch: over 90%                                |

Dimensions



| Power             |                      |
|-------------------|----------------------|
| Power Input       | DC 9~36V             |
| Power Consumption | FABS-821P: 42W (MAX) |

| Mechanical   |  |
|--------------|--|
| Construction | 304 Stainless steel front bezel (Default)<br>316 Stainless steel front bezel (Optional)<br>Aluminum die-casting back cover |
| Mounting     | Panel mount, VESA mount 100 x 100  |
| IP Rating    | IP66/IP69K compliant front bezel   |
| Dimensions   | 573.8 x 378.8 x 59.8 mm  |
| Net Weight   | 8 kg   |

| Environmental         |   |
|-----------------------|---|
| Operating Temperature | 0~40°C  |
| Storage Temperature   | -30~70°C  |
| Humidity              | 10 to 95% @ 40°C, non- condensing                                     |
| Certificate           | R/P/G/RH/PH/GH Model: CE/FCC Class A<br>P/G Model: EN 1672-2 (option) |

| Operating System Support |  |
|--------------------------|--|
| Windows 10 IoT           |  |

| Ordering Information |   |
|----------------------|---|
| FABS-821P (Barebone) | 21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis. |
| FABS-821G (Barebone) | 21" FHD fanless HMI barebone with Celeron N2930 (1.83.GHz ) CPU, 4GB DDR3L RAM, Protection Glass, 9~36V DC input with adapter, Stainless front bezel and Aluminum chassis.            |