

Features

- 21.5" Industrial Compact Size Panel PC
- Intel Celeron J6412 Processor
- 1 x 260-pin SO-DIMM DDR4 slot, up to 32GB 3200MHz
- Flat Front Panel Touch Screen with IP66 Front Bezel
- Support Expansion via Full-size Mini-PCIe and M.2 slots
- Support TPM2.0 Hardware Security
- DC 9~36V Wide Range Power Input
- High Brightness 1,000 nits for option

Specifications

| System | |
|----------------|--|
| CPU | Intel Celeron J6412 Processor (1.8GHz, 1.5MB L2 cache) |
| System Chipset | SoC |
| Memory | 1 x 260-pin SO-DIMM up to 32GB DDR4 3200MHz |

| I/O Port | |
|-------------------|--|
| USB | 2 x USB 3.2 Gen2 type A 2 x USB 2.0 type A |
| Serial / Parallel | 1 x RS-232/422/485 (Default RS-232; select via BIOS) |
| Audio | 1 x Audio Line Out |
| LAN | 2 x 2.5GbE LAN RJ-45 |
| DP | 1 x DP, support DP++ |
| Power | 1 x 3-pin Terminal Block Connector 1 x 2-pin Power Switch Connector |

| Option | |
|--|--|
| VESA Stand | |
| 4G LTE | |
| 4 x USB 2.0 type A (TB-528U4) | |
| 4 x USB 2.0 type A + 1 x Mini-PCIe + 1 x SIM slot (TB-528U4ME1) | |
| 2 x COM (RS-232) (TB-528C2) | |
| 1 x COM (RS-232) + 2 x USB 2.0 (TB-528C1U2) | |
| 1 x COM (RS-232) + 2 x USB 2.0 + 1 x Power Button (TB-528C1U2P1) | |
| 2 x COM (RS-232) + 1 x Mini-PCIe slot + 1 x SIM slot (TB-528C2ME1) | |
| 2 x COM (RS-422/485, isolated) (TB-528C2I) | |
| 2 x CAN (TB-528CAN2) | |
| 1 x LAN + 2 x USB 2.0 type A (TB-528E1U2) | |
| 1 x 2W Speaker | |
| 1 x Auto Dimming | |

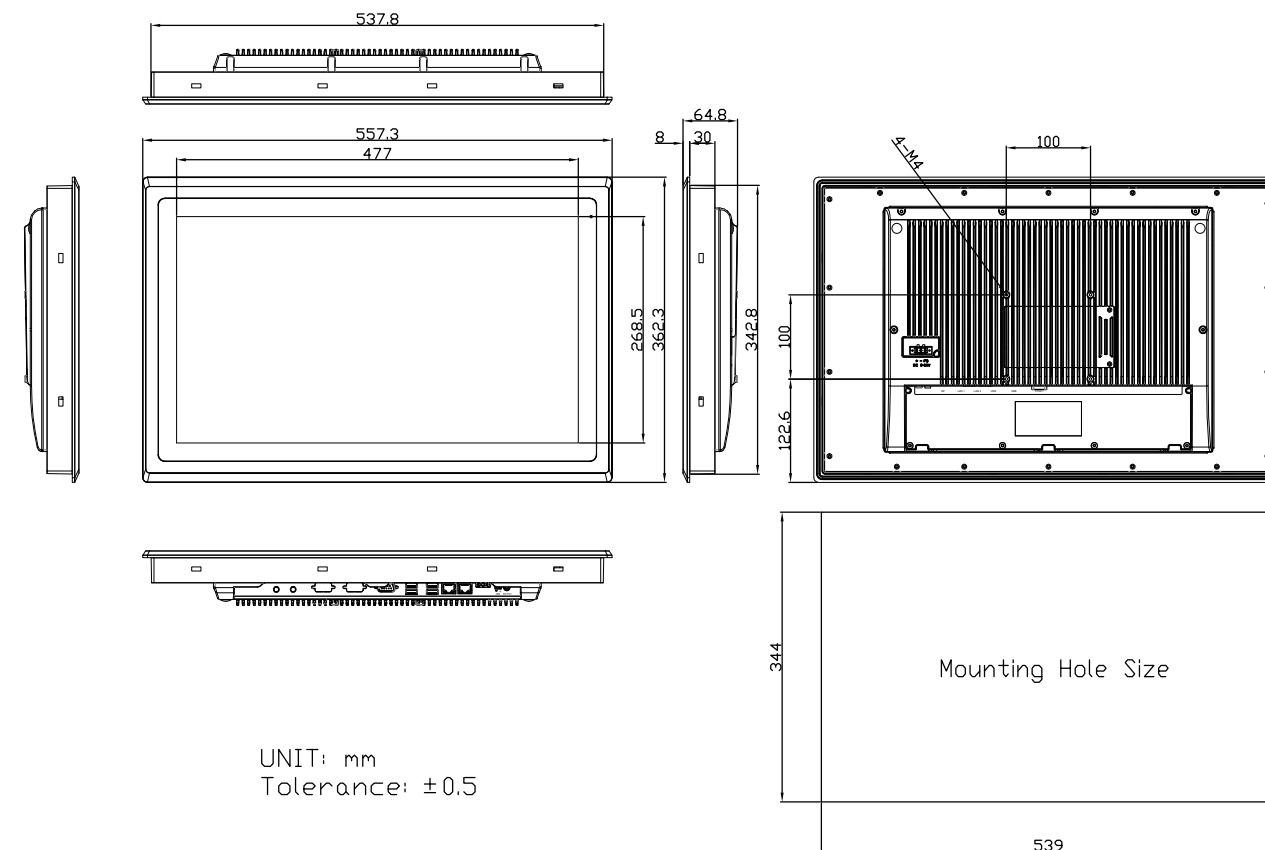
| Storage Space | |
|---------------|--|
| Storage | 1 x M.2 B-Key slot (Support SATA3 2242/2280, Default 2242) |

| Expansion | |
|-----------------------|---|
| Onboard Expansion Bus | 1 x Mini-PCIe slot (full size) 1 x M.2 E-key 1 x Nano SIM Card Holder |

| 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 ²) | 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 | Resistive Touch (for BR Model) Projected Capacitive Touch (for BP Model) |
| Interface | USB |
| Light Transmission(%) | Resistive Touch: 80% Projected Capacitive Touch: 90% |

Dimensions



| Power | |
|-------------------|----------|
| Power Input | DC 9~36V |
| Power Consumption | TBD |

| Mechanical | |
|--------------------|------------------------------|
| Construction | Aluminum Die-casting Chassis |
| Mounting | Panel Mount, VESA 100 x 100 |
| Dimensions (WxHxD) | 557.3 x 362.3 x 64.8 mm |
| IP Rating | IP66 Compliant Front Bezel |
| Net Weight | TBD |

| Environmental | |
|-----------------------|---------------------------------|
| Operating Temperature | 0~50°C |
| Storage Temperature | -30~70°C |
| Humidity | 10 to 95%@ 40°C, non-condensing |
| Certificate | Meet CE/FCC class A |

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

| Ordering Information | |
|----------------------|--|
| ARCHMI-821BR | 21.5" FHD fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis. |
| ARCHMI-821BP | 21.5" FHD fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis. |
| ARCHMI-821BR(H) | 21.5" High brightness FHD fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis. |
| ARCHMI-821BP(H) | 21.5" High brightness FHD fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis. |