

Features

- 23.8" 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 (2.0 GHz, 1.5MB L2 cache)
System Chipset	SoC
Memory	1 x 260-pin SO-DIMM up to 32GB DDR4 3200MHz
TPM	TPM 2.0

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 Line-out
LAN	2 x 2.5GbE LAN RJ-45 (I226)
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/Wi-Fi 4/5/6+/Bluetooth
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 (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 COM (RS-422/485, isolated) (TB-528C2I)	2 x CAN (TB-528CAN2)
2 x CAN (TB-528CAN2)	1 x LAN + 2 x USB 2.0 type A (TB-528E1U2)
1 x LAN + 2 x USB 2.0 type A (TB-528E1U2)	1 x 2W Speaker
1 x 2W Speaker	1 x Backup Battery 21Wh/10.8V/1.95Ah(3S1P)
1 x Backup Battery 21Wh/10.8V/1.95Ah(3S1P)	

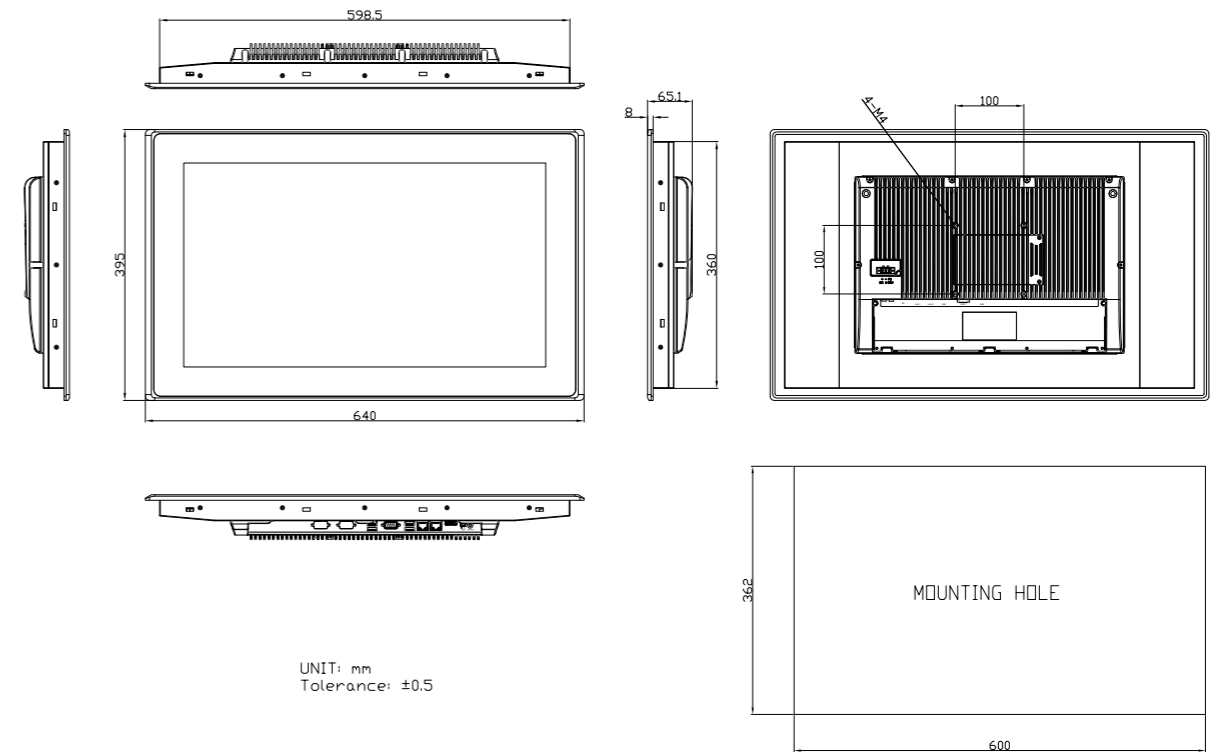
Storage Space	
Storage	1 x M.2 B-Key slot (Support SATA3 2242/2280, Default 2242)

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	Optional High Brightness
Display Type	23.8" TFT-LCD	23.8" 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	3000:1	3000:1
Backlight Lifetime	30,000 hrs	30,000 hrs

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

Dimensions



Power	
Power Input	DC 9~36V
Power Consumption	ARCHMI-824BP: 62W

Mechanical	
Construction	Aluminum Chassis
Mounting	Panel Mount, VESA 100 x 100
Dimensions (WxHxD)	640 x 395 x 65.1 mm
IP Rating	IP66 Compliant Front Bezel
Net Weight	9.85 kg

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

Operating System Support	
Windows 10 IoT, Windows 11 IoT	

Ordering Information	
ARCHMI-824BP	23.8" 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-824BP(H)	23.8" 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