

# ECC-U5000

Intel® Elkhart lake Soc CPU, 1\*HDMI, 8\*COM, 3\*LAN, 2\*USB3.1+2\*USB2.0, 8\*DI+6\*DO, 2\*CAN, 2\*MiniPCle, 1\*mSATA, DC12V or 9~36V(optional) wide voltage input

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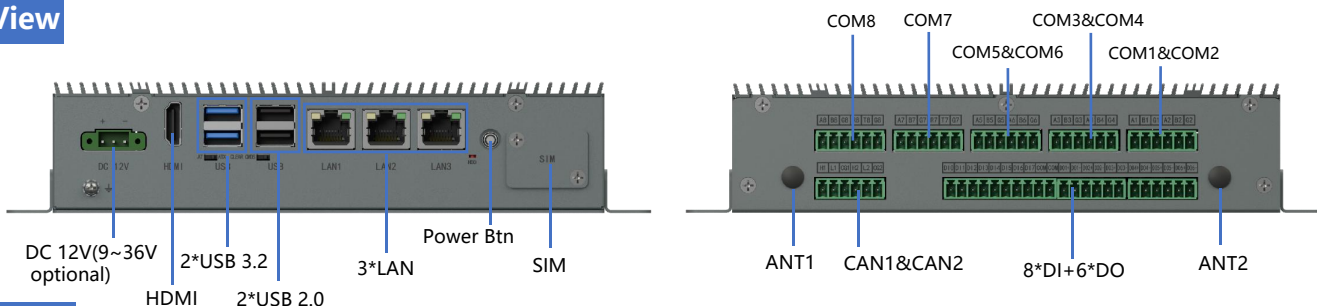
## Key Features

- Intel® Elkhart lake Soc CPU
- Intel® CPU SoC MCP, Fanless cooling design
- 1\*DDR4 3200MHz SODIMM, Up to 32GB
- 1\*HDMI, 1\*mSATA
- 2\*MiniPCle(1\*MiniPCle supports 4G, and the other with PCIeX1 and USB2.0 signals)
- 8\*COM(2\*RS232/485+6\*RS485), 3\*LAN, 2\*USB3.2+2\*USB2.0, 8\*DI+6\*DO indicates isolation, 2\*CAN indicates isolation
- DC 12V or 9~36V(optional) power input

## Description

ECC-U5000, equipped with Intel® Elkhart lake U series processor, with a comprehensive I/O interface, built-in 2\*Mini PCIe expansion module, DC12V or 9~36V (optional) wide voltage DC power supply optional, the product adopts SGCC box design, exquisite and compact size. The main application scenarios are energy storage system integration and manufacturing.

## I/O View

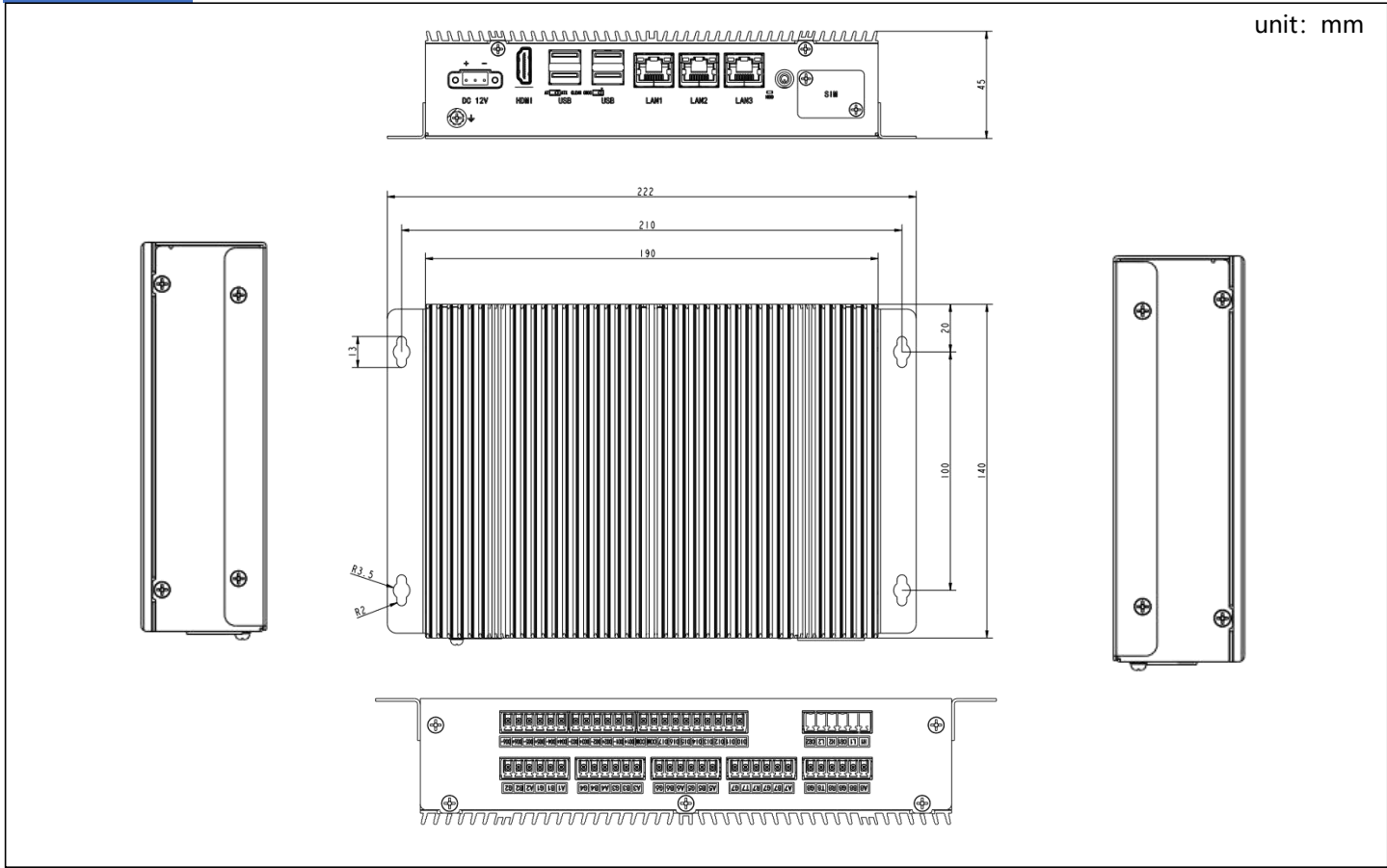


## SPEC.

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU            | Intel® Elkhart lake SoC CPU: Celeron J6412 2.0-2.6GHz 4-core 4-thread                                                                                                                                                                                                                                                                                                                                                              |
| Chipset        | Intel® CPU SoC MCP                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Memory         | 1*DDR4 3200 MHz SODIMM, up to 32GB                                                                                                                                                                                                                                                                                                                                                                                                 |
| BIOS           | AMI EFI BIOS, 128Mbit SPI flash memory                                                                                                                                                                                                                                                                                                                                                                                             |
| Storage        | 1* full-length mSATA with SATA3.0 signal and up to 6Gbps transmission speed                                                                                                                                                                                                                                                                                                                                                        |
| Display        | 1*HDMI display<br>Intel UHD Graphics or iRIS® Xe Graphics, Supports the Intel DL boost deep learning to strengthen technology, DirectX12.1, OpenGL 4.6 and OpenCL 3.0, HDMI Max resolution 4096*2304@60Hz                                                                                                                                                                                                                          |
| Expansion      | 2* full-length Mini-PCle, with PCIeX1 and USB2.0 signals, the function module can expand the PCIe signal; MiniPCle1 with SIM card slot, support 4G module; MiniPCle2 interface function is reserved                                                                                                                                                                                                                                |
| Real I/O       | 1*HDMI; 2*USB3.1+2*USB2.0 Type A; 3*RJ45; 1*3pin DC-IN terminal socket; 1*SIM card slot(With SIM cover)                                                                                                                                                                                                                                                                                                                            |
| Front I/O      | 8*COM: 2*RS232/485+6*RS485;<br>8*DI input signal form is wet node input, 24V/0V high and low level, optocoupler isolation; 6*DO output signal form is relay normally open output, passive output;<br>2*CAN ports, Phoenix terminal form, line sequence H, L, GND, meet the CAN2.0B standard, baud rate is 1M, support signal isolation, meet the electrostatic level 3, surge level 3, pulse group level 3 protection requirements |
| LAN            | 3*LAN with independent isolation transmitter, RTL811H-VB network chip, support 10/100/1000Mbps                                                                                                                                                                                                                                                                                                                                     |
| Control SW/LED | Power Btn, 1*HDD LED, 1*CMOS, 1*AT/ATX, 2-pin terminal remote switch                                                                                                                                                                                                                                                                                                                                                               |
| Power Supply   | DC-IN: 12V or 9 to 36V wide voltage input, overvoltage and overcurrent reverse protection<br>Power consumption: 18.35W (CPU Celeron J6412@2.00GHz, 8G DDR4, 128G mSATA)                                                                                                                                                                                                                                                            |
| OS             | Windows 10、Linux system                                                                                                                                                                                                                                                                                                                                                                                                            |

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Construction          | Aluminum rectangular profile cooling housing, SGCC box              |
| Operating Temperature | -20 ~ 60℃                                                           |
| Storage Temperature   | -40℃~85℃                                                            |
| Storage Humidity      | 10~95%@40 , non-condensing                                          |
| Shock                 | 5grms/5~500Hz/ Random/Working state (mSATA)                         |
| Vibration             | 50g peak acceleration (11ms duration)                               |
| Mounting              | Horizontal desktop installation                                     |
| Dimension             | (W*H*D): 222*140*45mm(Tape mounting); 190*140*45mm(No mounting kit) |
| Net Weight            | 1.32Kg                                                              |
| EMC                   | CE/FCC Class A                                                      |

Dimension



Ordering Info

| Model NO           | DC-IN                              | Description                                                                                                                                                                                                                       |
|--------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ECC-U5000/ S001    | 12V                                | Built-in box computer, 8*COM, 2*USB3.1+2*USB2.0, 3*LAN, 1*HDMI, 1*mSATA, 2*Mini PCIe with PCIeX1 and USB2.0 signals (1*MiniPCIe supports 4G, with SIM card slot, Another 1*MiniPCIe expansion port is reserved), 8*DI+6*DO, 2*CAN |
| ECC-U5000/ S001-WP | 9~36V(OFX-75)                      |                                                                                                                                                                                                                                   |
| PA-60DC12          | AC/DC power adapter, DC12V@5A ,60W |                                                                                                                                                                                                                                   |