

AIoT4-CMU

4" embedded industrial motherboard

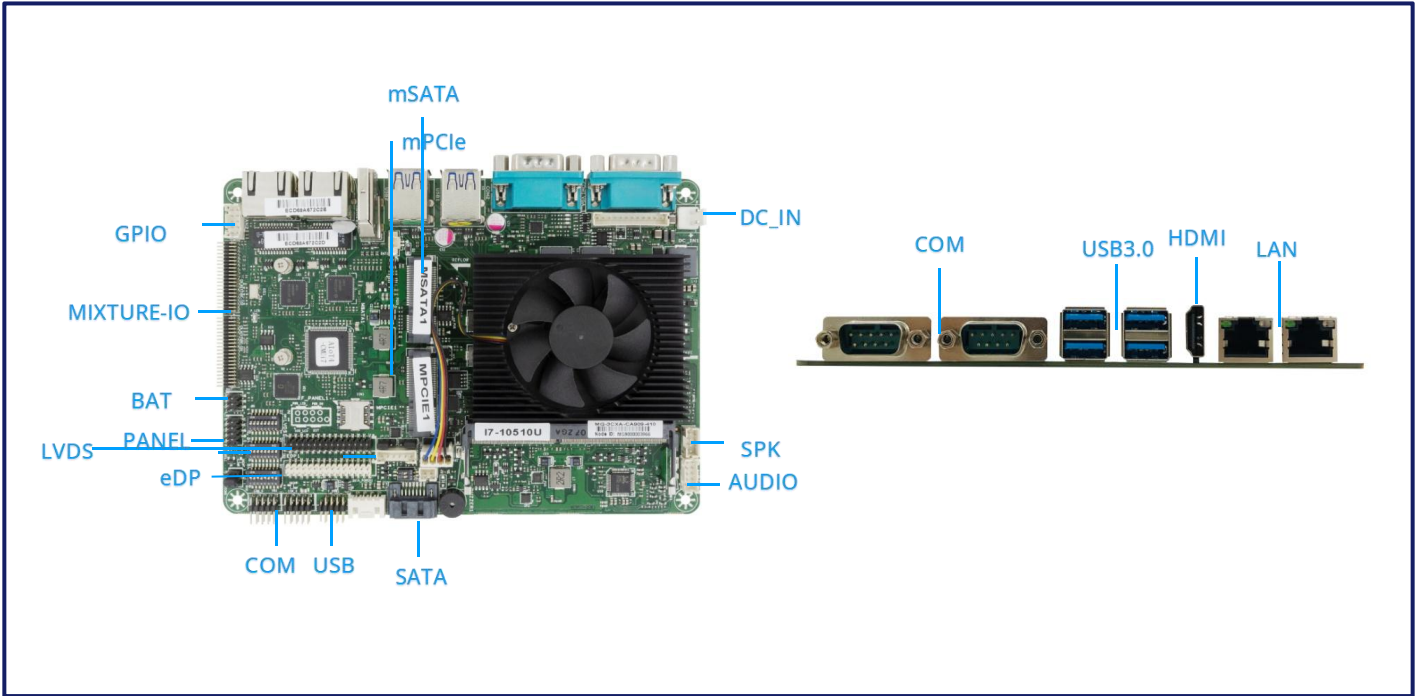


- Onboard Intel 10th Comet Lake-U series low-power CPUs
- Dual Intel LAN for high speed and stability
- I/O: 6 x COM, 9 x USB, 8bit GPIO, mSATA, Mini-PCIe, LVDS/eDP, SM-Bus, LPC
- DC IN 10-24V wide voltage power supply
- 1 x DDR4 SODIMM memory slot supports up to 16GB
- Industrial-grade interface chips
- Industrial-grade port protection blocks static electricity and surges

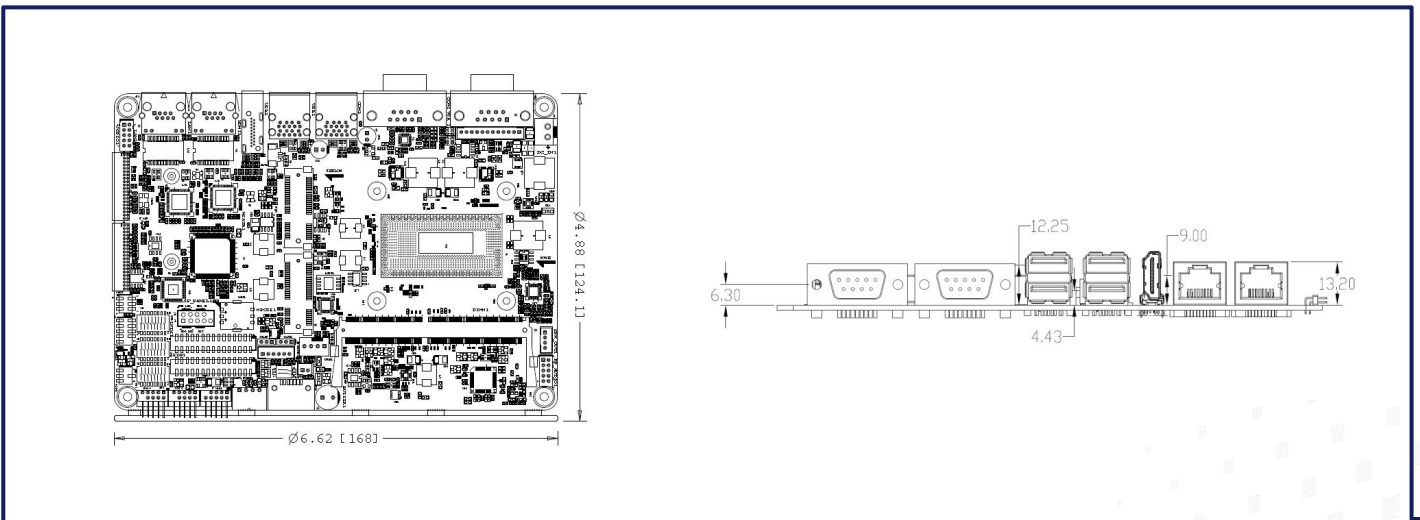
01 Specifications

CPU	Onboard Intel 10th CML-U 5205U, i5-10210U, i5-10310U, i7-10510U
Chipset	Intel WSK-U SOC or CML-U SOC
Memory	Supports 1 DDR4 SO-DIMM memory slot, MAX 16GB
Display controller	Intel integrates Udgraphics
Display interface	3 independent display interface HDMI+LVDS or eDP, VGA (pin optional) HDMI 1.4 max resolution up to 4096*2160@24Hz LVDS, Dual Channel 24bit, max resolution up to 1920*1200@60Hz eDP, max resolution up to 4096*2160@60Hz Provide 6pin 2.0mm inverter interface, 2pin 2.0mm power supply interface
Storage	Support 1 x SATA3.0+PWR 4pin 2.54mm, support 1 x mSATA
Audio	Support F_AUDIO1, 2x5pin, 2.0mm, 1 x SPK_OUT, 1x4pin, 2.0mm
Network	2 x Intel i211AT RJ45 LAN ports
USB	4 x USB 3.0 on board, 2 x USB 2.0 pins on board, and 3 x USB 2.0 integrated in MIX-IO
I²C/I²S/SMBus	1 x SM bus integrated into the MIX-IO
COM	COM1, COM2 support RS232/422/485 (BIOS setting), COM3, COM4 support TTL signal integrated into MIX-IO bus COM5 support RS232/TTL, 2x5pin, 90°, 2.0mm, COM6 support RS232, 2x5pin, 90°, 2.0mm
CAN	/
Digital I/O	1 x 8-bit GPIO Wafer interface with power and ground, +5V level output
TPM/TCM	The on-board encryption chip is SLB9670 and supports TPM2.0
Expansion bus	1 x Mini-PCIe (with SIM card holder to support 4G module) 1 x MIX-IO bus integrated GPIO/2xUart/3xUSB2.0/PS2/PCIex1/SW/LPC/Smbus
Operating temperature and humidity	The temperature range is -10°C~60°C (extendable -40~70°C), the relative humidity is 10%~85%, and the atmospheric pressure is 85~105kPa
Non-operating temperature and humidity	Temperature range: -40°C~85°C; The relative humidity is 5%~95% (40°C), and the atmospheric pressure is 85~105kPa
Watch Dog	255 levels of programmable seconds per minute with support for timeout interrupt or system reset
BIOS	AMI UEFI BIOS
Operating System	Windows10, Linux (Ubuntu 18.04, Fedora Core 28)
Power	Support 10~24V DC wide voltage input, 2 pin, VH3.96 interface (with DC-Jack adapter cable) and provide a 4pin 2.54mm +12V fan connector
PCB dimensions (L*W)	168x 120 mm

Product view



Dimensions



Product Selection

Product model	Disposition
ALoT4-CMU05	ALoT4-CMU05 IWLUNS02,V0.2,Intel ,Comet Lake,Celeron 5205U V2,WGI211AT,ALC662-VD
ALoT4-CMUi5	ALoT4-CMUi5 IWLUNS02,V0.2,Intel ,Comet Lake,I5-10210U V2,WGI211AT,ALC662-VD
ALoT4-CMUi5	ALoT4-CMUi5 IWLUNS02,V0.2,Intel ,Comet Lake,I5-10310U V2,WGI211AT,ALC662-VD
ALoT4-CMUi7	ALoT4-CMUi7 IWLUNS02,V0.2,Intel ,Comet Lake ,I7-10510U V1,WGI211AT,ALC662-VD