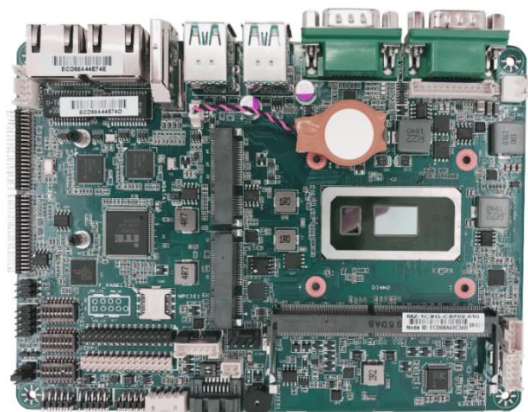


Picture

Feature

- ◆On board Intel 8th WSK-U or 10th CML-U .
- ◆Dual Intel Gigabit high-speed and Stable
- ◆Rich industrial I/O: 6COM, 9USB, 8bit GPIO, mSATA, Mini-PCIe, LVDS/EDP, SM-Bus, LPC, 10-24V wide voltage power supply
- ◆One DDR4 SODIMM Memory slot,max support 16GB
- ◆Use high Tg wide temperature PCB material ensure wide temperature stability
- ◆Industrial level port block static and surge



voltage surge

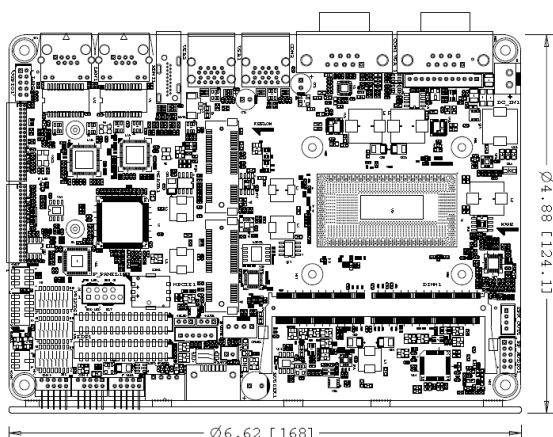
- ◆Use Industrial level port chip ensure the reliability of data

Spec

Product model	AIoT4-CMU
Product type	Embedded industrial motherboard
CPU	On board Intel 8 th WSK-U 4205U, i5-8265U, i7-8565U or On board Intel 10 th CML-U 5205U, i5-10210U , i7-10510U
chipset	Intel WSK-U SOC or CML-U SOC
Memory	Support 1 * DDR4 SO-DIMM memory slot , MAX 16GB
Display controller	Intel integrated UHD Graphics
Display Port	3* display port, HDMI+LVDS OR eDP(Select Jumper) , VGA(Pin is optional)+ HDMI 1.4 max resolution up to 4096*2160@24Hz LVDS, Dual Channel 24bit, max resolution up to 1920*1200@60 eDP, max resolution up to 4096*2160@60Hz with 6pin 2.0mm Inverter port , 2pin 2.0mm power port
Storage	Support 1 * SATA3.0+PWR 4pin 2.54mm ,Support 1 * mSATA
Audio	Support F_AUDIO1, 2x5pin , 2.0mm , 1 x SPK_OUT, 1x4pin , 2.0mm
Net	2 * Intel i211AT RJ45 Dual Intel Gigabit port
USB	4 * Board' s side USB3.0, 2 * in board USB2.0 pin , 3*mix IO expand ports (optional)
SM bus/I ² C interface	1 * SM bus integration in MIX-IO
Serial port	COM1, COM2 support RS232/422/485(BIOS setting) COM3 , COM4 support TTL signal integration MIX-IO bus COM5 support RS232/TTL , 2x5pin , 90° , 2.0mm COM6 support RS232 , 2x5pin , 90° , 2.0mm
PS2 Keyboard & Mouse /LPT Port	PS2 Keyboard port integration MIX-IO
Digital I/O	1 * 8 bit GPIO Wafer port , support +5V power support

LPC expansion port	MIX-IO integration LPC part bus can extend 4 serial port modules
TPM port	On board encryption chip SLB9670 , support TPM2.0
Power	Support 10 ~ 24V DC wide voltage input , 2 pin , VH3.96 port (with DC-Jack tieline) Supply 4pin 2.54mm +12V fans port
Expand bus	1 * Mini-PCIe (with SIM card slot ,support 4G module) 1* user defined MIX-IO bus integrate GPIO/2xUart/3xUSB2.0/PS2/PCIex1/SW/LPC/Smbus
Work temperature /humidity demand	0~60°C, 10%~90% no condensation ; can expand support -40~85°C, 10%~90% no condensation ;
Non-working temperature / humidity demand	-40°C~85°C, 5%~95%无凝结
Watch Dog	Software programmable 1~255 second/minute , system interrupt/reset
BIOS	AMI UEFI BIOS
Operate system	Win10/Linux , 64bit
PCB Color requirement	PCB Industrial green spraying is adopted
PCB 尺寸 (LxWxH)	168x 120 mm

Dimension and layout



Order information

Motherboard	Chipset	Memory	Display port	Storage	USB3	USB2	COM	LAN	PCIe
AIoT4-CMU05	5205U	1SODIMM	3	1SATA 1mSATA	4	5	6	2	2PCIe
AIoT4-CMU15	i5-10210U	1SODIMM	3	1SATA 1mSATA	4	5	6	2	2PCIe
AIoT4-CMU17	i7-10510U	1SODIMM	3	1SATA 1mSATA	4	5	6	2	2PCIe

Spareparts list

Description	Specification	QTY
Power transfer connection	2 pin, VH3.96 port transfer DC-Jack with screw tieline	1
SATA hard disk tieline	SATA-7P(female)/ With metal shrapnel /L=300	0
USB2.0 Socket 2.0mm(female)transfer TYPE A	5x2Pin 2.0mm(Female) to dual USB2.0 TYPE A /L=150,Pin9	0
With frame socket 2.0mm(female)transfer DB9 serial line	5x2Pin2.0mm(female)to DB9(male) serial port cable /L=150Pin10	0
Driver Disk	Driver Disk (contain English introduction)	0