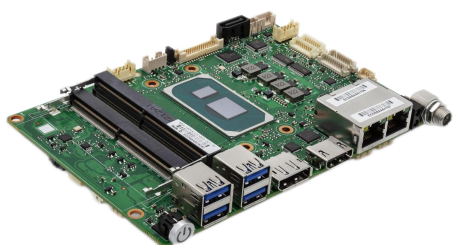


AIoT3-TGU

3.5" embedded industrial motherboard

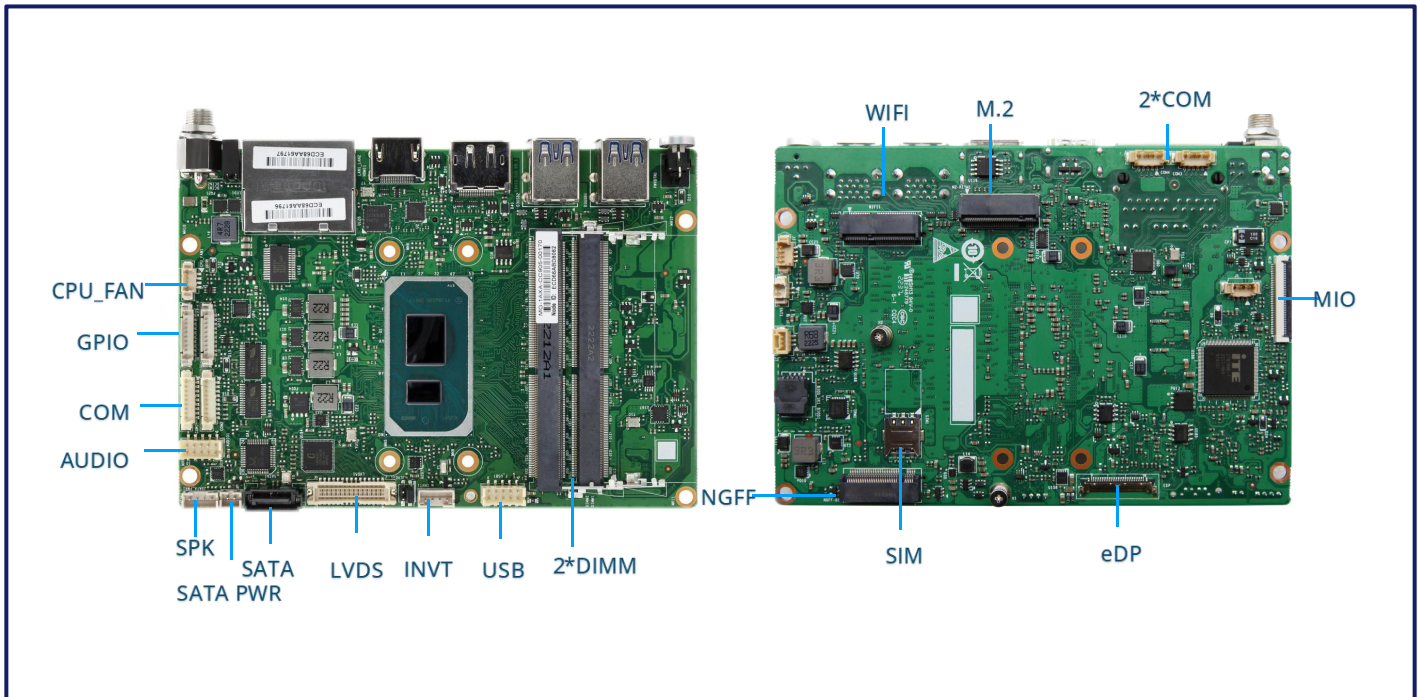


- Intel TigerLake U series low-power CPU, TDP 15W ,Turbo 28
- 2 DDR4 SO-DIMM slots, supporting up to 64GB
- M.2 2280 Key-M supports SATA/NVMe auto-adaptation
- M.2 3042/3052 Key-B for 4G/5G, M.2 2230 Key-E for Wifi/BT
- 4 USB 3.0 Gen1 ports for connecting HD video devices
- 4 Independent display interfaces HDMI+DP+LVDS+eDP

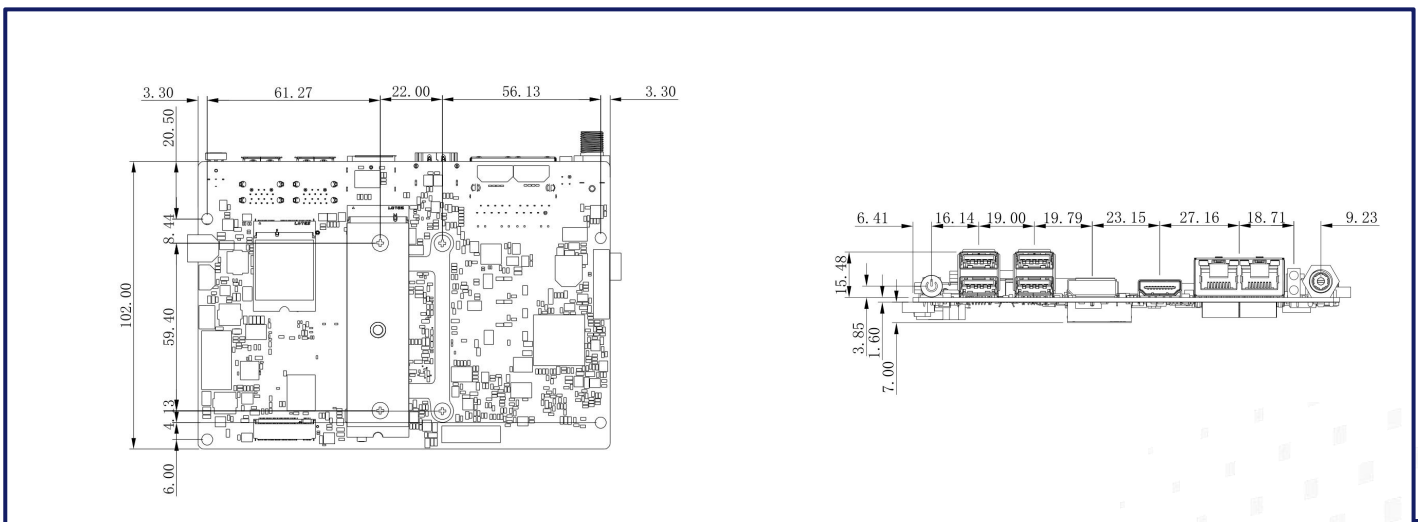
01 Specifications

CPU	Intel Celeron 6305/6305E or Intel Core i3-1115G4/i3-1115G4E or Intel Core i5-1135G7/i5-1145G7E or Intel Core i7-1195G7/i7-1185G7E
Chipset	Intel Tiger Lake UP3 SOC
Memory	2× DDR4 SODIMM memory slot, up to DDR4-3200, single socket up to 32GB
Display controller	Integrated Core Graphics: Intel UHD Graphics for 11th or Iris Xe Graphics (depending on CPU)
Display interface	Quad display interface : HDMI+DP+eDP+LVDS; HDMI 2.0 max resolution up to 4096*2160 DP, max resolution up to 4096*2160 eDP, max resolution up to 4096*2160 LVDS, Dual Channel 24bit, max resolution up to 1920*1200
Storage	1 x SATA3.0+PWR 2pin 2.0mm
Audio	Support Mic-in+Line-out (single-hole 2-in-1); Support digital audio output with power amplifier (3W, 4Pin wafer)
Network	2 x Intel Hi-Speed Ethernet: LAN1 i219V, LAN2 i226-V (4KV Surge Protection)
USB	4 x USB 3.0 Gen1 5Gb Type-A on the rear panel and 2 x USB 2.0 on the board
I ² C/I ² S	1 x 4Pin wafer I ² C
COM	COM1, COM2 support RS232/422/485 (BIOS setting) COM3, COM4 support four-wire RS232
CAN	1 x 3Pin wafer CANBus 2.0
Digital I/O	8-bit digital I/O interface (1x10Pin wafer)
TPM/TCM	The on-board encryption chip SLB9670 supports TPM2.0
Expansion bus	1 x M.2 2280 Key-M supports SATA/NVMe self-adaptation 1 x M.2 Key-B3042 supports 4G/5G wireless module (PCIe x1, USB2.0) 1 x M.2 Key-E 2230 (PCIe x1, USB2.0) MIO interface: Mini-PCIe/2xCOM/1xUSB2.0/PS2/PWR_BTN/RST/Buzzer
Operating temperature and humidity	When using room temperature memory and storage: -10°C~60°C, relative humidity 10%~85%, atmospheric pressure 85~105kPa When using wide temperature memory and storage: -40~70°C, relative humidity 10%~85%, atmospheric pressure 85~105kPa
Non-operating temperature and humidity	Temperature: -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/Legacy BIOS
Operating System	Windows10, Windows11, Linux Ubuntu 21.04
Power	DC 12V~24V DC-Jack (optional 2Pin Phoenix Terminal) Power switch, power indicator, storage indicator
PCB dimensions (L*W)	146mm(W)×102mm(D)

02 Product view



03 Dimensions



04 Product Selection

Product model	CPU	Display	LAN	M.2	USB3	USB2	COM	CAN
ALoT3-TGU05	6305E	4	2	2	4	2	4	1
ALoT3-TGUi3	i3-1115G4	4	2	2	4	2	4	1
ALoT3-TGUi5	i5-1135G7	4	2	2	4	2	4	1
ALoT3-TGUi7	i7-1165G7	4	2	2	4	2	4	1
ALoT3-TGUi7	i7-1195G7	4	2	2	4	2	4	1