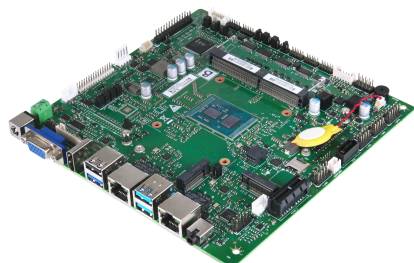


AIoT7-EHL12

Standard tMini-ITX motherboard

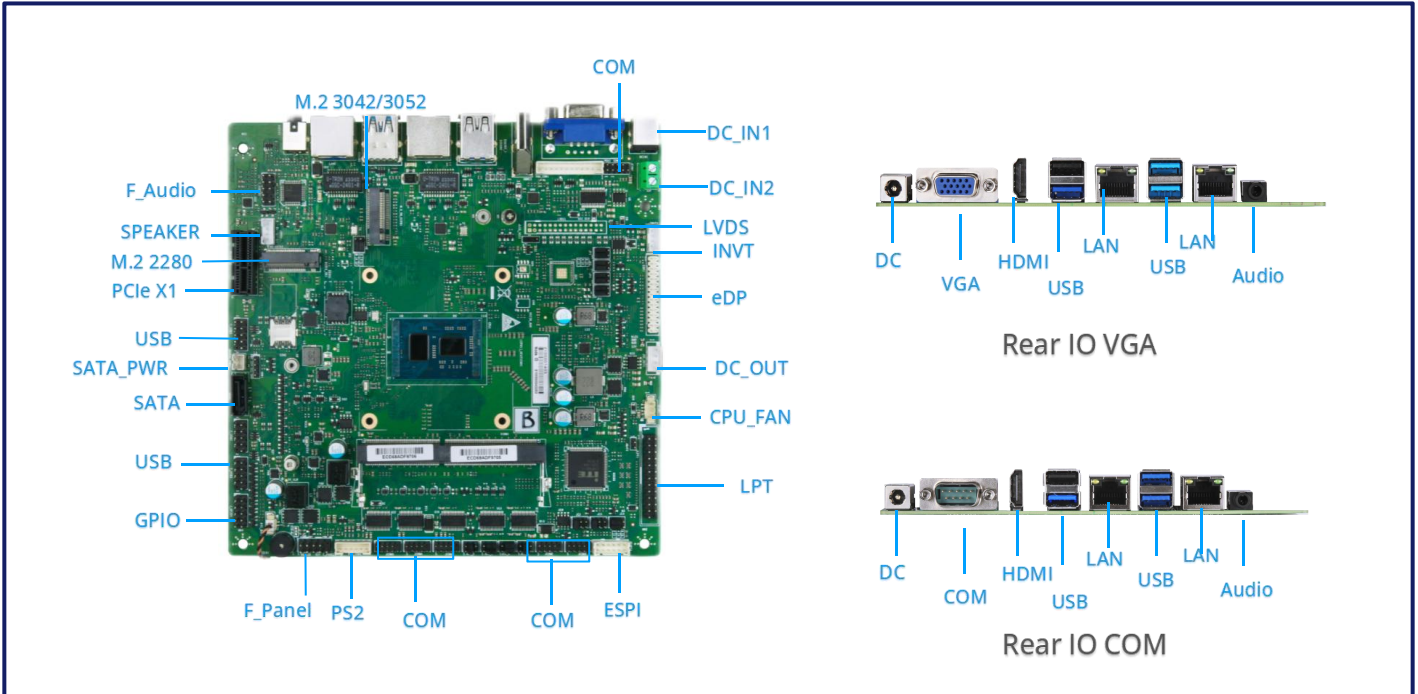


- Onboard Intel Elkhart Lake J6412 4 Core 2.0~2.6GHz CPU
- 1 strip of DDR4 SO-DIMM slot, max. 32 GB
- 3 Display port/1*SATA/2*GbE/10*USB/6*COM/1PCIe
- COM1 supports RS485, COM2~6 support RS232
- 2 RTL8111H high-speed network interfaces
- 1 PCIe 3.0x1 Slots, 1 M.2 Key-B 3042/3052 supports 4G / 5G
- 1 M.2 2242/2280 support the SATA protocol SSD
- Support for digital audio output with power amplifier

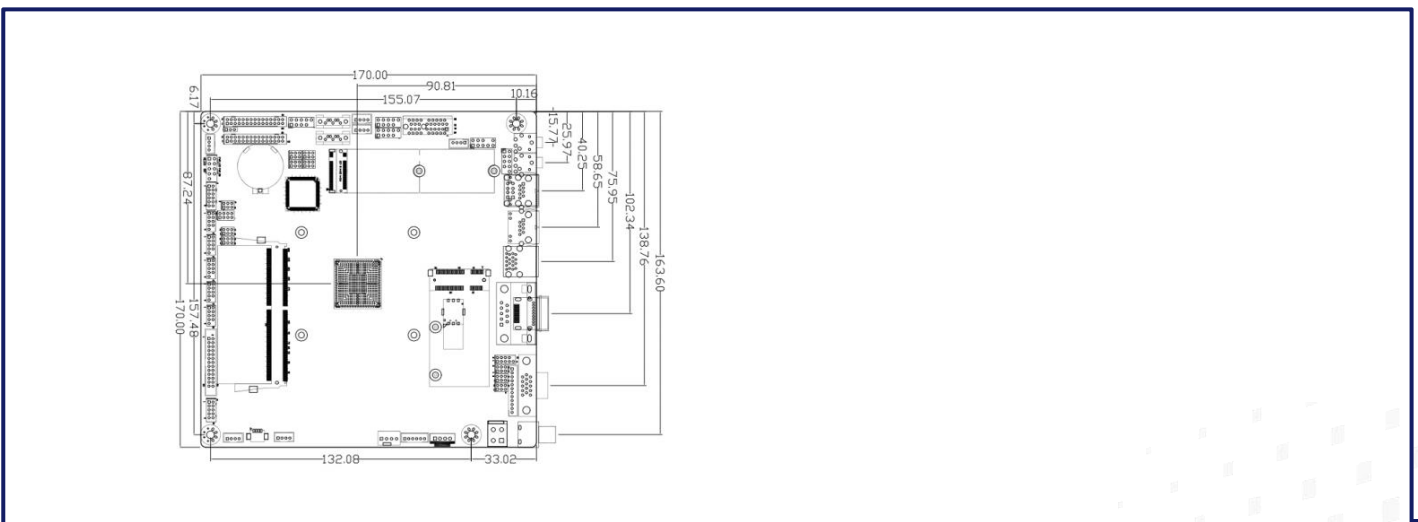
01 Specifications

CPU	Onboard Intel Elkhart Lake J6412 4 Core 2.0~2.6GHz CPU
Chipset	Intel Elkhart Lake SOC
Memory	1 DDR4 SODIMM memory slot, up to DDR 4-3200, up to 32GB
Display controller	Intel CPU Integrated UHD display controller
Display interface	Three display port HDMI + VGA + eDP / LVDS, support triple-display VGA maximum resolution 1920x1200@60Hz; HDMI maximum resolution 4096x2160@30Hz eDP resolution 4096x2160@ 60Hz; LVDS best resolution: 1920 * 1080
Storage	1 SATA 3.0, 1 M.2 2242/2280 support the SATA protocol SSD
Audio	The posterior IO Mic-in + Line-out combo Jack Support chassis front panel audio pin, support audio output with power amplifier (4Pin wafer)
Network	2 RJ 45 Gigabit Ethernet ports, RTL8111H
USB	4 rear IO USB (3 x USB 3.0 Type-A and 1 USB 2.0 Type-A) 6 internal USB (One of the jumpers is selected to M.2-2230)
Parallel/I ² C/SMBus	1 Parallel , 1 4Pin SMBus
Serial port	COM1 support RS232 / 485, COM2-COM6 support RS232 COM2 & COM3 supports Pin9 5/12V power supply, COM3 optional TTL signal
Keyboard & mouse	1 * PS2 keyboard and mouse, via pin-header
Digital I/O	8-digit I/O, providing power and ground, +5V level
LPC/eSPI	1 * eSPI bus
TPM interface	On-board encryption chip SLB9670VQ2.0/SLB 9672VU2.0, support TPM 2.0
Power supply	DC-Jack 12V input, optional 2 Pin Phoenix connector input DC-Out power supply : 12v and 5V@500mA
Expansion bus	1 PCIe 3.0 x 1 expansion slot 1 M.2 Key-B 3042/3052(PcieX1+USB3.0+USB2.0), Support for 4G / 5G modules (WiFi and BT support via M2-3042to2230 transfer card)
Operating temperature and humidity	0~60°C, 10% to 90%, and no condensation
Non-operating temperature and humidity	-40 to 80°C, 10% to 90%, and no condensation
Watch Dog	255 level programmable seconds / minutes, support timeout interruption or system reset
BIOS	AMI UEFI BIOS
Operating System	Windows10, Windows11, Linux Ubuntu 20.04
PCB dimensions (L*W)	170mm*170mm

Product view



Dimensions



Product Selection

Product model	Chipset	Memory	Display	Storage	USB3	USB2	COM	LAN	SSD	PCIe
Alot7-EHL12-1	J6412	1	3(2)	1SATA	3	7	6	2	1*M.2	1
Alot7-EHL12-2	J6412	1	3(2)	1SATA	3	7	6	2	1*M.2	1

Note : ALoT7-EHL12-1: Rear IO out of VGA, internal Edp, COM1 internal pin
 ALoT 7-EHL12-2: Rear IO out COM1, internal VGA pin, internal LVDS
 Optional: 20020000183, adap M2-3042to2230 supports WiFi and BT