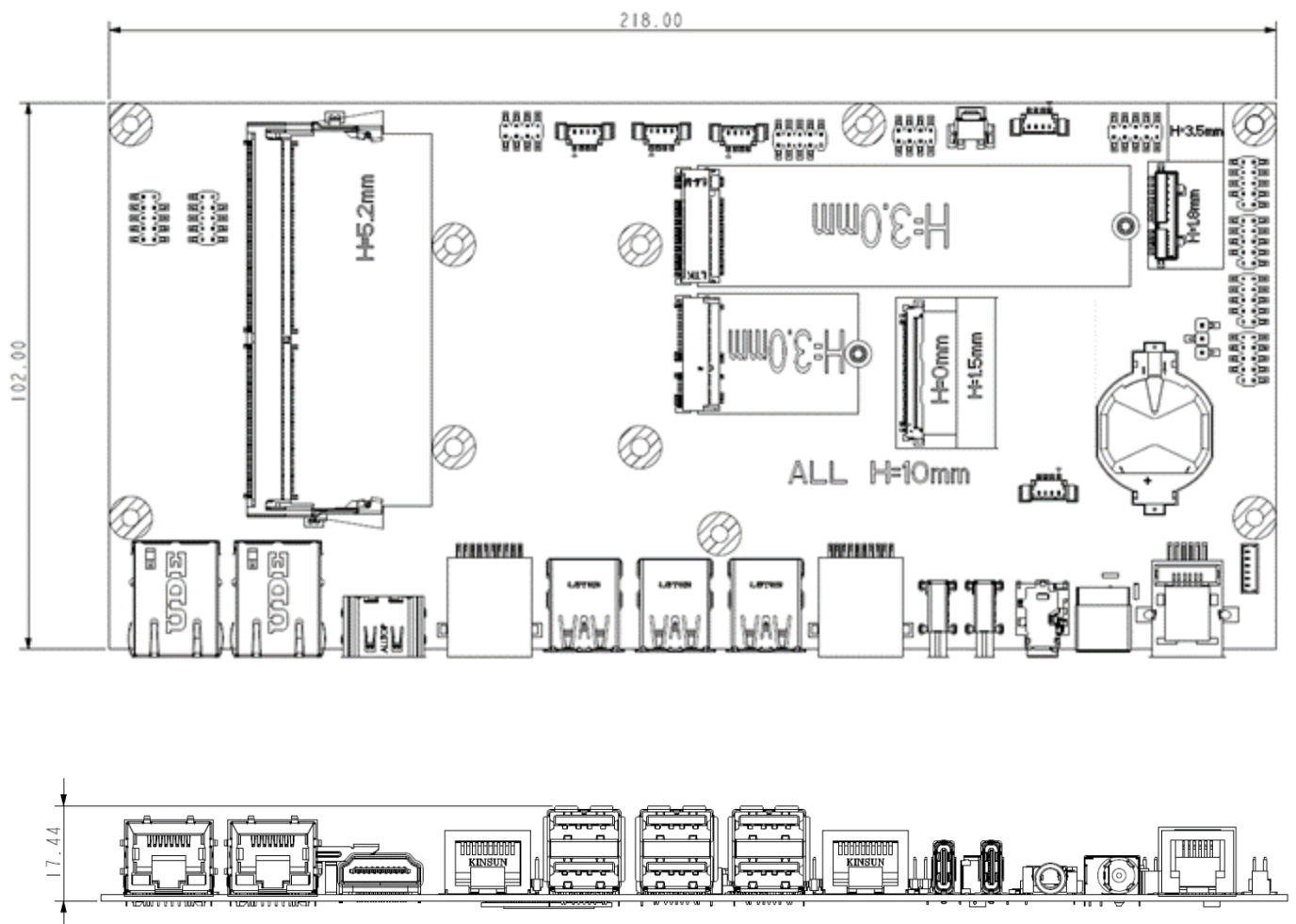


MA1N Motherboard

- ◇ Intel® Atom® Alder Lake-N Processors.
- ◇ Triple displays: HDMI, Type-C Alt. Mode outputs and IPEX eDP output.
- ◇ Rich I/O connectivity: Suitable for ultra-slim Panel PC, POS, IPC system.
- ◇ Designed for fanless applications.

Board Placement

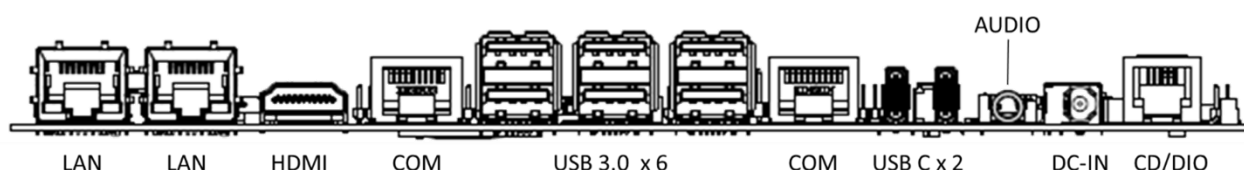


Board thickness: 1.20mm

MA1N Specifications

Motherboard		MA1N
CPU	FCBGA1264	Intel® Core™ i3-N305, 8 cores, 6M Cache, up to 3.80 GHz, 15W
		Intel® Core™ i3-N300, 8 cores, 6M Cache, up to 3.80 GHz, 7W
		Intel® Processor N97, 4 cores, 6M Cache, up to 3.60 GHz, 12W
Memory	SO-DIMM	1 x SO-DIMM DDR4 3200 MT/s, Max. 16GB
Storage	m.2 NVMe (PCIe)	1x M.2 2280 M-KEY SSD
	SATA	Option proprietary SATA connector and cable
Communication	Wi-Fi	Option 802.11 ac/a/b/g/n Wireless module (m.2 2230)
Interface	LAN	2 x Intel i-226V 2.5Giga LAN
	Display	1 x HDMI, 2 x Type C with Alternate mode, 1 x IPEX (up to 3 display outputs)
	COM 1,2 with Power	2 x RS232 (RJ-50) RI / 5V / 12V select by BIOS
	USB	6 x USB3.0, 2 x USB-C
	USB C	2 x Type C with Alternate mode and PD
	Audio Connector	1 x 3.5 mm headphone and microphone combo jack
	Power	5.5 x 2.5 mm DC-IN Voltage 12-24V
	Cash Drawer	Cash Drawer supported 12V/24V select by Jumper
Internal Connector	eDP	1 x IPEX (eDP with USB 2.0)
	Power Button	1 x Power On/Off Push Button Switch
	Power and indicator	1 x Power switch with Power LED indicator
	USB	2 x 9 pin header for USB 2.0
	m.2 with PCIe	1x M.2 2280 M-KEY (PCIe) 1x M.2 2230 E-KEY (USB2.0/PCIe)
	COM 3,4	COM3,4: RS-232 2*5 2.0mm pin header x 2, pin9 with Ring, no +5V/+12V support
	COM 5,6	COM5,6: RS232/422/485 (optional) 2*5 2.0mm pin header x 2, pin9 with Ring, no +5V/+12V support
	GPIO	1 x 10 pin header (GPIO Pull high 1K to 5V level)
Other	Operating temperature	0~50°C (32~122°F)
	Storage temperature	-20~70°C (-4~158°F)
	Dimension	218 x 102 mm / 8.58 x 4.016 inch
	Weight	163g / 0.359 pounds
	Accessory	Optional 65W (19V/3.42A) Optional RJ50 to DB9 convert cable (COM Port)

I/O Interface (MA1N)



All information contain in this document is subject to change without prior notice.