

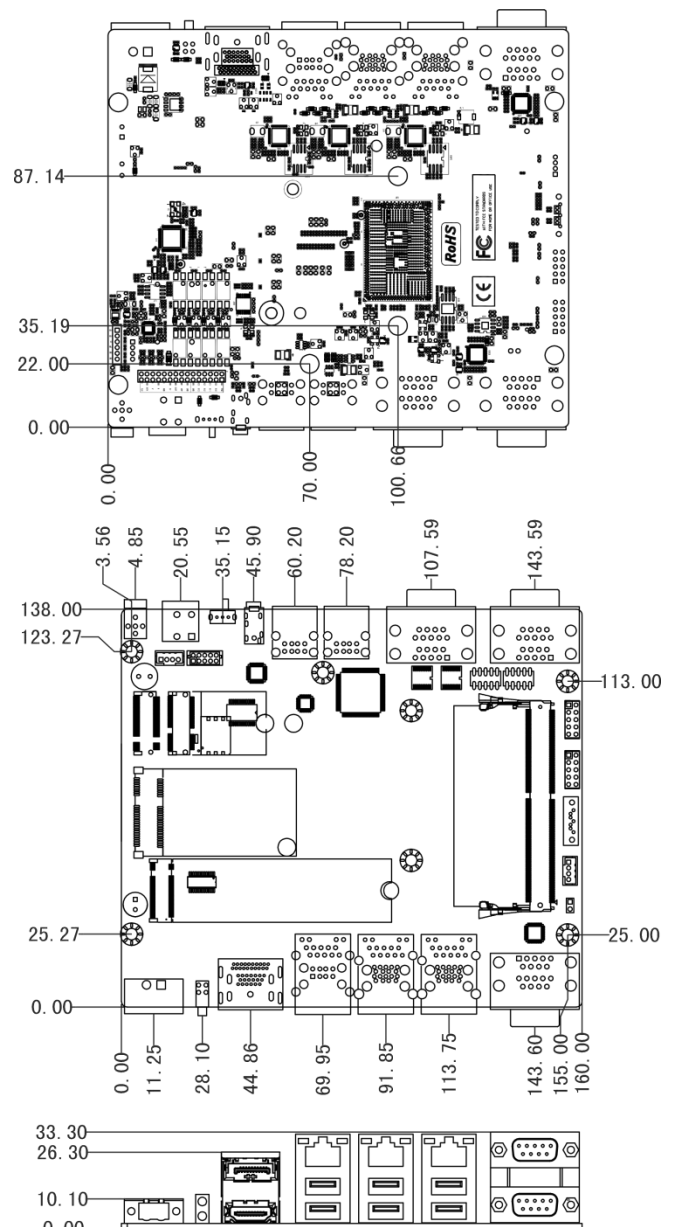
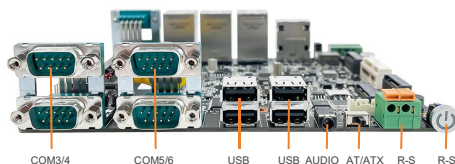
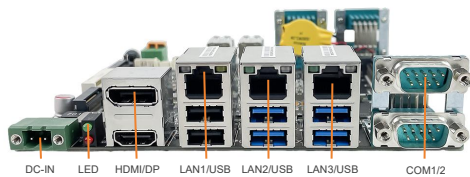
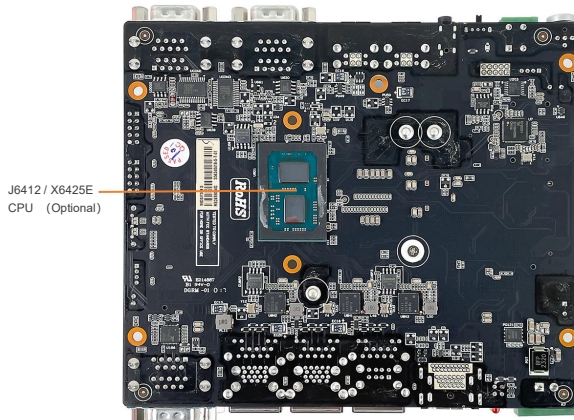
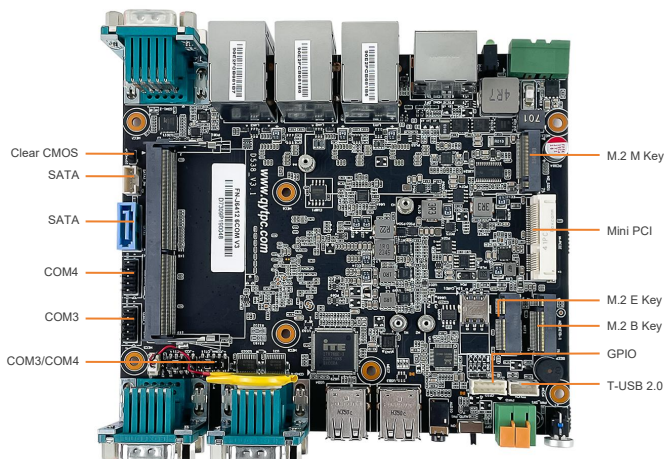
# EFIC-2000

Intel® Elkhart Lake  
Celeron J6412 / Atom X6425E processor

## Features

- Intel® Celeron® J6412 Quad-core 2.0 GHz, TDP 10W
- 1 x DDR4 3200MHz SODIMM, MAX 32GB
- 1 x 2.5 SATA HDD, 1 x M.2 2280 SATA SSD
- 1 x M.2.0 (2230, Wifi+BT), 1 x M.2.0 (3042/3052, 4G/5G)
- Supports dual independent display: 1 x HDMI, 1 x DP
- 3 x Intel® 226-V 2.5GbE Ethernet, support WoL and PXE
- 6 x COM (2x RS232/RS422/RS485), ESD and Surge Protection
- Support TPM2.0 hardware security
- 9V to 36VDC Wide Range Power Input, Supporting OVP / OCP / RPP

## I/O Layout



## Specifications

<b>System</b>	CPU	Intel® Elkhart Lake Celeron J6412 2.0GHz	Intel® Elkhart Lake Atom X6425E 2.0GHz
	L2 Cache	1.5MB	1.5MB
	TDP	10W	10W
	Chipset	Integrated with Intel® SoC	
	BIOS	AMI UEFI BIOS	
	Watchdog Timer	Software Programmable Supports 1~255 sec. System Reset	
	TPM	TPM 2.0	
<b>Memory</b>	Technology	Single Channel (Non-ECC) DDR4 3200MHz, up to 32GB	
	Slot	1 x DDR4 SO-DIMM Slot	
<b>Storage</b>	SATA	1 x SATA3.0 Port	
	M.2	1 x M.2-2280 M Key SSD Slot (SATA3.0 Signal)	
<b>Graphic</b>	Controller	Intel HD Graphics Integrated	
<b>Audio</b>	Codec	Realtek ACL897 Audio controller	
<b>I/O</b>	Display	1x DP1.4, Max Resolution up to 4096x2160@60Hz	
		1x HDMI, Max Resolution up to 4096x2160@30Hz	
	Ethernet	1x GbE1: Intel I226v 2.5GbE LAN PXE Support	
		1x GbE2: Intel I226v 2.5GbE LAN PXE Support	
		1x GbE3: Intel I226v 2.5GbE LAN PXE Support	
	USB	6x USB 2.0 (480Mbps), Type A	
		4x USB 3.2 Gen1x1 (5Gbps), Type A	
	COM	2x COM 1, COM 2 ( RS-232 / 422 / 485, Adjustable through BIOS )	
		2x COM 3, COM 4 ( RS-232 / 485 )	
		2x COM 5, COM 6 ( RS-232 )	
	Remote Power On/Off	1x Remote SW	
	Power Button	1x Power Button	
Audio	1x Audio_out & Mic_in		
Indicators	1x SATA LED(Red), 1x Power LED(Green),		
<b>Internal I/O</b>	M.2	1x M.2 ( Key-E, 2230, PCIe+USB, Wifi+BT )	
		1x M.2 ( Key-B, 3042/3052, PCIe/ USB 3.0+USB2.0, 4G/5G )	
		1x M.2 ( Key-M, 2280 SATA, SSD )	
	GPIO	1x 8bit GPIO(2*5pin)	
	USB	1x USB2.0 wafer(1*4pin)	
	COM	2x RS232/485 wafer(2*5pin)(COM3/COM4)	
	SIM Slot	1x SIM Socket	
Mini-PCIe slot	1x Mini-PCIe slot with Nano-SIM socket (Pcie/USB2.0)		
<b>Power</b>	Power Mode	Support AT, ATX Mode	
	Power Supply Voltage	DC IN 9~36V	
	Power Connector	1x 2-pin Phoenix Terminal Block	
	Power Protection	OVP ( Over Voltage Protection )   OCP ( Over Current Protection )   RPP ( Reverse Polarity Protection )	
<b>Operating System</b>	Windows	Windows 10/11 IoT Enterprise	
	Linux	Linux	
<b>Physical</b>	Dimensions	160mm x 138mm	
	Weights	0.3kg	
<b>Environment</b>	Operating Temperature	-20°C ~70°C, 10 ~90%( non-cpmdemsing )	
	Storage Temperature	-40°C ~80°C, 10 ~90%( non-cpmdemsing )	
	Certification	CE/FCC Class A	