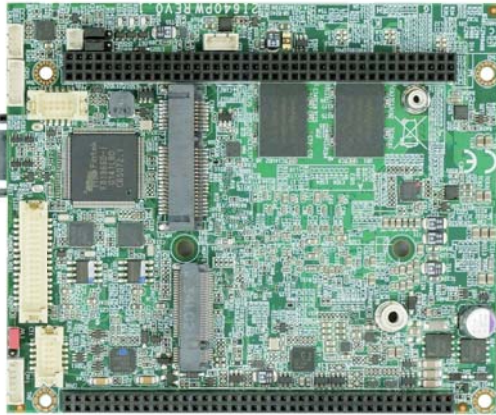


2I640PW

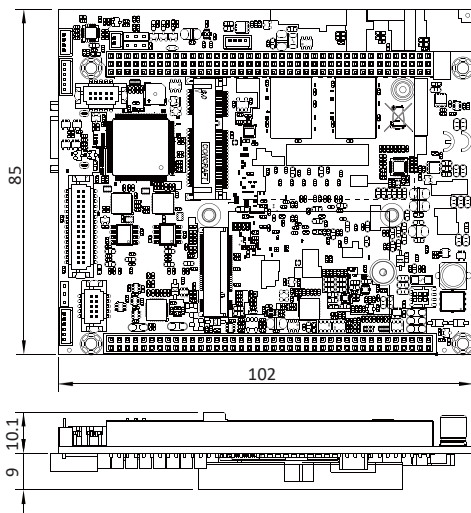
Pico Express Computer on Module supports
Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
HDMI®, LVDS, 2 x Intel 2.5 Gb Ethernet, 7 x USB, Touch Screen,
4 x COM, 1 x M.2, 1 x Mini PCIe, HD Audio, 4DI / 4DO



Features:

- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- On Board LPDDR4 4GB or 8GB
- Independent display: 1 x HDMI®, 1 x LVDS, 1 x VGA
- 2 x Intel 2.5 GbE LAN, 2 x USB 3.0, 5 x USB 2.0
- 4 x COM, 1 x Mini PCIe, 1 x M.2
- 1 x PCIe x1, 1 x PCIe x2 (Pico-Express)
- Touch Screen, HD Audio, 4DI / 4DO
- TPM 2.0

Dimensions: (Unit:mm)



Specifications :

- CPU
Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- MB Chipset
Intel® Elkhart Lake SoC
- Graphics
Intel® HD Graphics, Support DirectX 12.1 & OpenGL 4.5
- System Memory
On Board LPDDR4, 4GB or 8GB
- Storage
1 x SATA port
1 x M.2 B key Type 2242 / 3042, Support SATA SSD
- BIOS
Insyde UEFI BIOS
- Display
1 x HDMI®, 1 x VGA, 18 / 24bits 2-channel LVDS
- Touch
USB interface Touch Screen controller
- TPM
TPM 2.0 (Firmware) ; OEM Optional to Hardware TPM
- LAN
2 x Intel 2.5 GbE I226 (internal)
- Audio
High Definition Audio Specification, Support Line-out / Mic-in / Line-in
Two channel Class D Audio Amplifier
- Expansion Interface
1 x M.2 B Key Type 2242 / 3042 (USB 2.0 / PCIe / SATA)
1 x Mini PCIe (USB 2.0 / PCIe)
1 x PCIe x1 & 1 x PCIe x2 of Pico Express 200-pin connector

Expansion Module IO expanded via 160-200 pin connector

Carrier Board:

- DK001:** DVI, VGA, 5 x USB, 2 x LAN, 4 x COM, 4 x Mini PCIe, 4 x SIM
- DK002:** HDMI, VGA, 5 x USB, 2 x LAN, 4 x COM, 2 x Mini PCIe, 2 x SIM
- DK005:** HDMI, VGA, 5 x USB, 4 x COM, 8 x PoE, 1 x GbE, 4 x Mini PCIe, 2 x SIM
- DK006:** VGA, 5 x USB, 2 x LAN, 4 x COM, 4 x BNC Board
- DK007:** VGA, 5 x USB, 4 x COM, 2 x PoE, 2 x Mini PCIe, 2 x SIM
- DM001:** M12 Board
(mini HDMI®, VGA, 2 x USB, 4 x COM, 8 x PoE, 1 x GbE, 3 x Mini PCIe, 1 x SIM)
- DM002:** M12 Board (mini HDMI®, VGA, 2 x USB, 4 x COM, 2 x GbE, 1 x Mini PCIe, 1 x SIM)
- DK008:** HDMI, VGA, 2 x LAN, 5 x USB, 4 x COM, 1 x mini card,
1 x M.2 B-Key 3042 / 2280, Audio

- USB
2 x USB 3.0 ; 5 x USB 2.0
- Serial IO
4 x RS232 / 422 / 485
- GPIO
Hardware digital Input & Output, 4 x DI / 4 x DO
- SMBus
1 x SMBus
- I2C
1 x I2C
- WDT
Hardware Watch Dog Timer, 0~255 sec programmable
- PS2 KB/MS
PS2 Keyboard / Mouse
- Power Input
Wide Range +9~36V
- Dimension
2.5" Plus (102 x 85 mm) ; Weight: 80g
- Operation Temperature
-20°C~+70°C (100 % CPU Usage)
-40°C by x6413E CPU
- Operation Humidity
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
Box PC: TERA, SKY 2, ARK
- OS Support
Windows® 10 IOT ; Windows® 11 IOT
Ubuntu 22.04.4 LTS, kernel 6.5.0-27-generic

Specification are subject to change without prior notice. ODM / OEM is available.