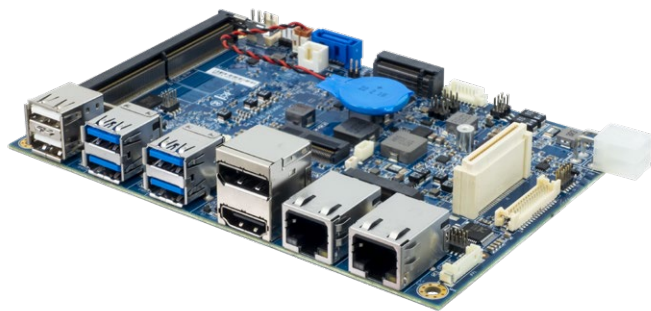




## 3.5" Intel® 12th Gen. Core® i7 / i5 / i3 / Celeron® SoC SBC



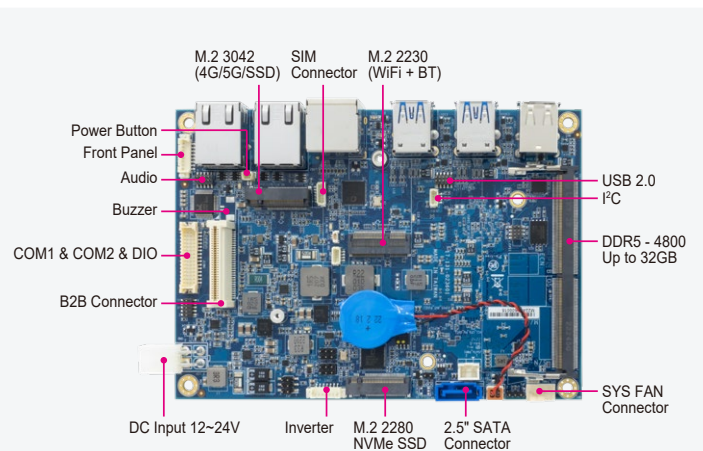
### Features

- Intel® Core™ i7 / i5 / i3 / Celeron® series SoC
- 2 x 2.5GbE LAN, 8 x USB, 2 x RS-232/422/485, 8bit DIO
- 1 x DP, 1 x HDMI®, 1 x LVDS / eDP
- 1 x M.2 M-Key 2280 (PCIe Gen4 x4)
- 1 x M.2 B-Key 3042 (PCIe x1, USB2.0)
- 1 x M.2 E-Key 2230 (PCIe x1, USB2.0)
- 1 x Protech defined B2B Expansion I/O socket
- Wide Voltage DC Input 12V~24V

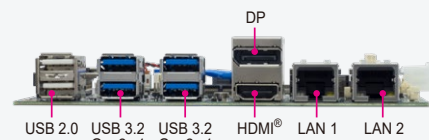
### Specifications

System	
CPU Support	Intel® Core™ i7-1265UE, 2P8E, 96EU Intel® Core™ i5-1245UE, 2P8E, 80EU Intel® Core™ i3-1215UE, 2P6E, 64EU Intel® Celeron® 7305E, 1P4E, 48EU
Chipset	Intel® SoC
Memory Support	1 x SO-DIMM socket, supporting DDR5 up to 32GB (non-ECC)
BIOS	AMI UEFI BIOS
API/SW/FW	Hardware Monitor API/utility, Watchdog API/utility, selectable timer: 1~255 seconds
Power Supply	DC In 12V~24V
Power Consumption	TBD
Dimensions	145 x 102 mm (5.71" x 4.02")
Certifications	FCC / CE
O.S. Support	Windows IoT Enterprise 2021 LTSC / Windows 11 IoT Enterprise (GAC) / Ubuntu 22.04 LTS (Kernel 5.15)
I/O Ports	
SATA Interface	1 x SATA III port (6.0Gb/s)
Serial Ports	2 ports (wafer) COM1: RS-232/422/485 COM2: RS-232/422/485 selectable under BIOS, default RS-232
LAN	Dual LAN LAN 1: Intel® I225 supports 2.5GbE LAN LAN 2: Intel® I225 supports 2.5GbE LAN
Audio	Line-out / Mic-In (pin header)
Digital I/O	4 in / 4 out (pin header)
USB	8 ports: 2 x USB 2.0 (internal wafer) 4 x USB 3.2 Gen 2x1 (rear I/O) 2 x USB 2.0 (rear I/O)
Expansion Bus	1 x M.2 E-Key 2230 (PCIe x1, USB2.0) 1 x M.2 B-Key 3042 LTE/ 5G (PCIe x1, USB2.0) w/ SIM signal 1 x M.2 M-Key 2280 (PCIe Gen4 x4 NVMe)
Graphics	
HDMI	1 x HDMI®, resolution up to 4096 x 2160 @60Hz
DisplayPort	1 x DP, up to 4096 x 2304 @60Hz
LVDS	1 x LVDS/eDP, resolution up to 1920 x 1200
Environment	
Operating Temp.	0°C~60°C (32°F~140°F): with standard heatsink -20°C~75°C (-4°F~167°F): with qualified thermal solution, T.B.D
Storage Temp.	-40°C~85°C (-40°F~185°F)
Humidity	Operation & Storage humidity: 20%~95%

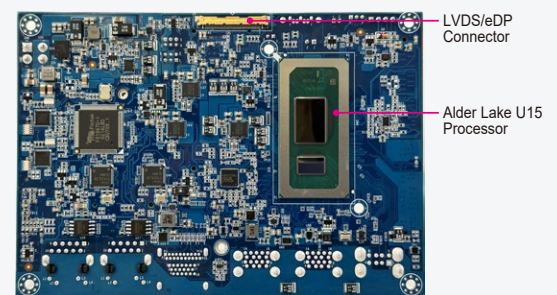
### I/O Connector



### Rear I/O



### M/B Bottom Side



### Application

- Automation
- Retail
- Information
- Food Service
- Transportation
- Medical
- Hospitality



\* All information contained in this document is subject to change without prior notice. Please log on [www.protech.com.tw](http://www.protech.com.tw) to acquire latest information. For detail mechanics drawing, please contact our sales.