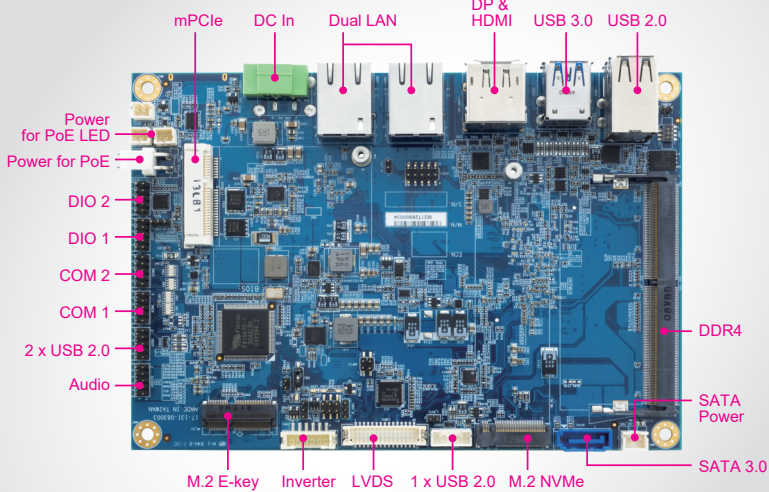


BE-U830

› EPIC CPU Board with Intel® Elkhart Lake Atom® / Pentium® / Celeron® SoC CPU



Features



- Intel® Elkhart Lake Atom® / Pentium® / Celeron® SoC CPU
- 2 x COM, 2 x LAN, 8 x USB
- 1 x VGA, 1 x DP, 1 x LVDS(internal)
- 1 x Mini PCIe slot, 2 x M.2

Specifications

System

CPU Support	FCBGA1493 for Intel® Elkhart Lake Atom® / Pentium® / Celeron® SoC CPU
CPU List	Atom®: X6212RE, X6425RE Celeron®: J6412
Chipset	Intel® Elkhart Lake SoC
Memory Support	1 x DDR4 SO-DIMM, 3200MT/s up to 32GB (non-ECC)
BIOS	AMI UEFI BIOS
Watchdog	1~255 seconds watchdog timer selectable
Power Supply	Support DC12/24V input
Dimensions	165 x 115 mm (6.5" x 4.5")
Certifications	CE / FCC
O.S. Support	Windows 10 IoT Enterprise, Linux

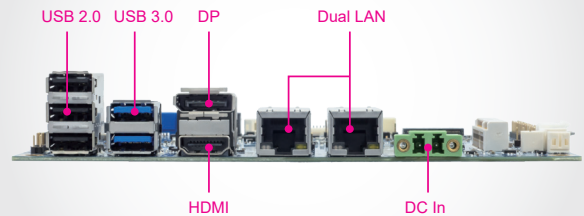
Graphics

Flexible Display	1 x DP, 1 x HDMI, 1 x LVDS (internal), support triple independent display.
DisplayPort	1 x DP (rear I/O) up to 4096 x 2304 @60Hz (default)
HDMI	1 x HDMI (rear I/O) up to 4096 x 2160 @60Hz (default)
LVDS	1 x LVDS (internal) 1 / 2 channel 18/24bits

Environment

Operating Temp.	-10°C~60°C (14°F~140°F) @humidity 20%~90%
Storage Temp.	-40°C~85°C (-40°F~185°F) @humidity 20%~90%

I/O Panel View



I/O Ports

SATA Interface	1 x SATA 3.0
Expansion Bus	1 x Mini PCIe
M.2 Slot	1 x M.2 slot NVMe (PCIeX2), supports 2280 size only 1 x M.2 slot E-key with PCIe signal (user has to secure it outside M/B)
LPC	1 x LPC (2x5 Pin Header), for debug and UART module only
Serial Ports	2 x COM ports COM 1&2: RS232/422/485, support 5V/12V by jumper selection
FAN	N/A
LAN	Dual LAN (2 x RJ45 on rear I/O) Intel® LAN i210AT (GbE), supports Wake-On-LAN & PXE
Audio	Mic In / Line In / Line Out (pin header)
Digital I/O	8 in / 8 out (pin header)
USB	8 ports 2 x external USB 3.0 (rear I/O), 3 x external USB 2.0 (rear I/O), 2 x internal USB 2.0 (pin header) 1 x internal USB 2.0 (wafer)

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