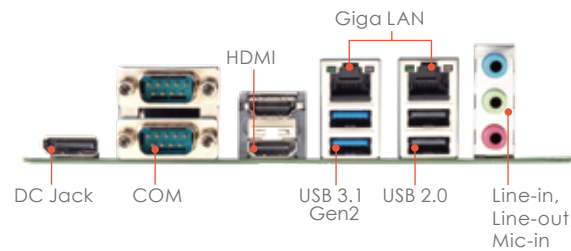
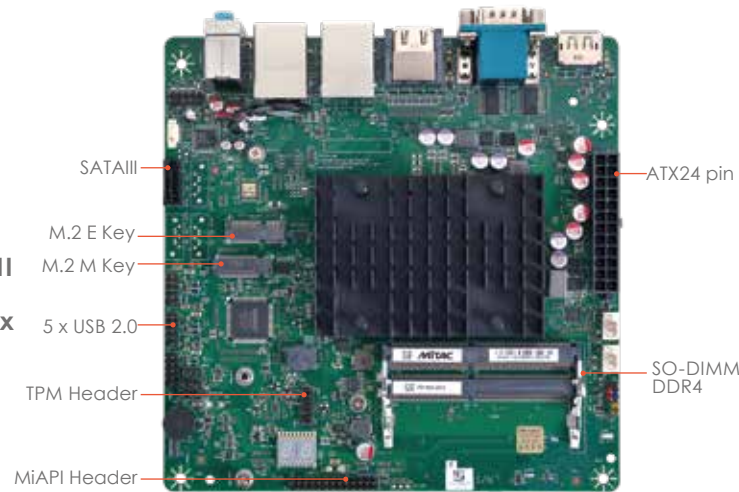


PD11EHI

Mini-ITX Form Factor
Intel® Elkhart Lake Processor

Features

- Intel® Elkhart Lake Celeron J6413 BGA Processor (Up to 3.0GHz)
- Support 2 x DDR4 SO-DIMM (Up to 32GB)
- Support Triple Display for dual HDMI, and DisplayPort
- Support 1 x M.2 2242/2280 M-Key (SATA, PCIe X2), 1 x M.2 2230 E-Key, and 1 x SATA III
- 7 x USB2.0, 2 x USB3.2 Gen2, 2 x COM and 1 x MiAPI (configurable digital I/O)
- ATX 24-pin power input



M.2 Support

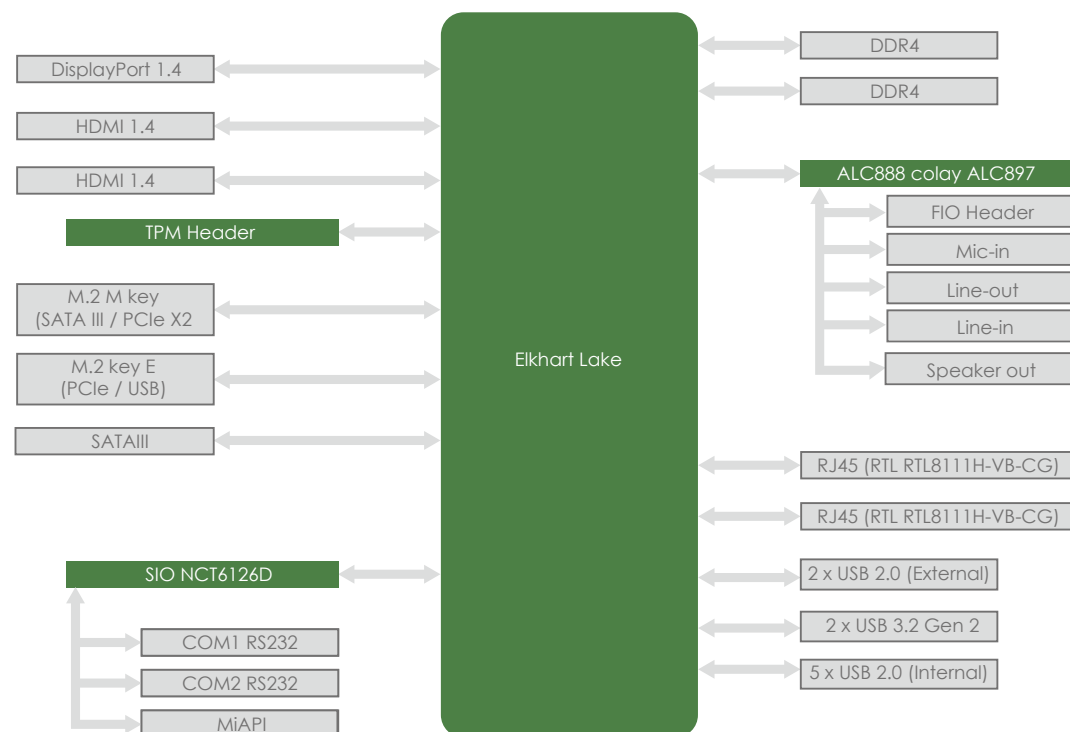
USB 3.2

All Solid Capacitor

MiAPI

EMC Class B

Block Diagram



PD11EHI Mini-ITX

MECHANICAL	
Form Factor	Mini-ITX: 6.7" x 6.7" (170 mm x 170 mm)
SYSTEM	
Processor	Intel® Elkhart Lake Celeron J6413
Chipset	Intel® SoC Integrated
Memory	DDR4 3200, 2 x 260-pin SO-DIMM, Max. 32 GB (Non-ECC)
Graphics	Intel® UHD Graphics
Ethernet	2 x Realtek RTL8111H-VB-CG Giga LAN
Audio	Realtek® ALC888S coloy ALC897
I/O Chipset	Nuvoton NCT6126D (eSPI)
TPM	TPM Header, (support optional TPM module board NPCT750)
Expansion Slot	M.2 2242 / 2280 M key (SATAIII, *PCIe X2) **support M.2 M Key NVMe SSD M.2 2230 E key (PCIe, USB 2.0)
BIOS	AMI BIOS
H / W Monitor	Temperature Monitor, Voltage Monitor, Fan Monitor
Watchdog Timer	1~255 Steps by Software Program
Smart Fan Control	CPU Fan
GRAPHICS	
VGA	—
DVI	—
HDMI	Up to 4K (4096 x 2160) @30 Hz
DisplayPort	Up to 4K (4096 x 2160) @60 Hz
LVDS	—
eDP (Option)	—
REAR I/O	
USB	2 x USB 3.2 Gen2, 2 x USB 2.0
Display I/O	2 x HDMI 1.4, 1 x DisplayPort 1.4
Audio I/O	1 x Mic-in, 1 x Line-out, 1 x Line-in
LAN I/O	2 x RJ45
Serial Port	2 x RS232
PS/2 Port	—
Others	—
INTERNAL CONNECTORS	
Storage	1 x SATAIII (4x SATA III by customize sku)
USB	5 x USB 2.0
Display I/O	—
Audio I/O	1 x Stereo Speaker Header 1 x Audio Header (Front Panel Mic-in & Line-out)
Serial Port	—
PS/2 Port	—
Parallel Port	1 x MiAPI Header (Optional for Parallel Port Header)
GPIO	—
Fan	1 x 4-pin CPU Fan Header / 1 x 4-pin System Fan Header
Power	1 x ATX 24-pin Power Connector / 1 x AT / ATX Mode Select Jumper
Others	1 x CMOS Jumper 1x Buzzer, 1 x FIO header
POWER REQUIREMENT	
Power Input	ATX 24-pin
ENVIRONMENTAL	
Operating Temperature	0 ~ 60°C (32 ~140°F)
Storage Temperature	-40 ~ 85°C (-40 ~185°F)
Operating Humidity	10% ~ 95% R/H, non-condensing
Certification	CE / FCC Class B, UKCA
OS	
OS Support	Windows® 11 64bit., Windows® 10 IoT LTSC 64bit (LTSC 2021), Ubuntu 22.04, Linux (support by request)

Ordering Information

Model Number	Processor	HS Configuration
PD11EHI-J6413	Celeron J6413	MB + Heatsink

Packing List

Packing			
• 1 x Motherboard	• 1 x I/O Bracket (Full Height)	• 1 x 50cm SATA Cable	• 1 x Quick Installation Guide