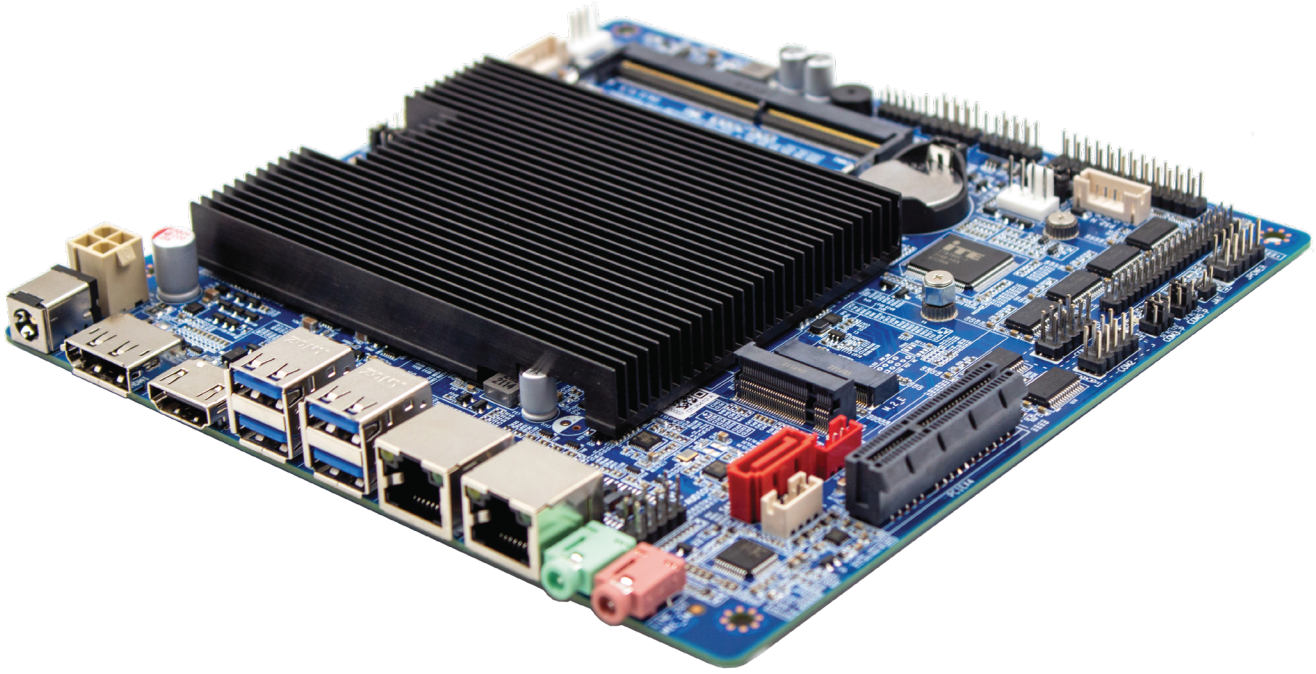
PRODUCT DATASHEET
HW Rev.: V1.0

EHL-10

Intel® Elkhart Lake Processor based Mini ITX Motherboard



Features

- CPU: Intel® Elkhart Lake Celeron and Pentium processors
- Memory: Single channel SO-DIMM DDR4 up to 32GB
- Display: Intel® UHD Graphics display via HDMI®, DP, LVDS/eDP
- Ethernet: 10/100/1000 Mbps
- Storage: M.2 Key B for SATA SSD/4G, SATA3.0
- Expansion: M.2 Key E for WiFi &BT, PCIe 4X(2X Signal), SIM optional
- Power: 12V DC-in

intel prestige partner Builder

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Introduction

The Maxtang EHL-10 Mini-ITX motherboard is based on Intel® Elkhart Lake processors and provides a complete PC platform with high performance. Single Channel SO-DIMM DDR4 up to 32GB for its memory and SATA3.0, M.2 for its storage. Intel® UHD graphics (based on CPU) for display via HDMI®, DP, and eDP/LVDS. Rich interfaces include 6xCOM, 2xLAN, 4xUSB3.2, 4xUSB2.0 optional SIM and PCIe cater most market requirements.

The industrial mini-ITX motherboard offers a lot of functionality right off the rear panel and its internal headers. It is composed of high-quality components intended for a long-life operation that is perfect for industrial environments. It retains a robust design just like all other Maxtang products with stability, reliability, and cost advantages.

Linux

ubuntu

Windows

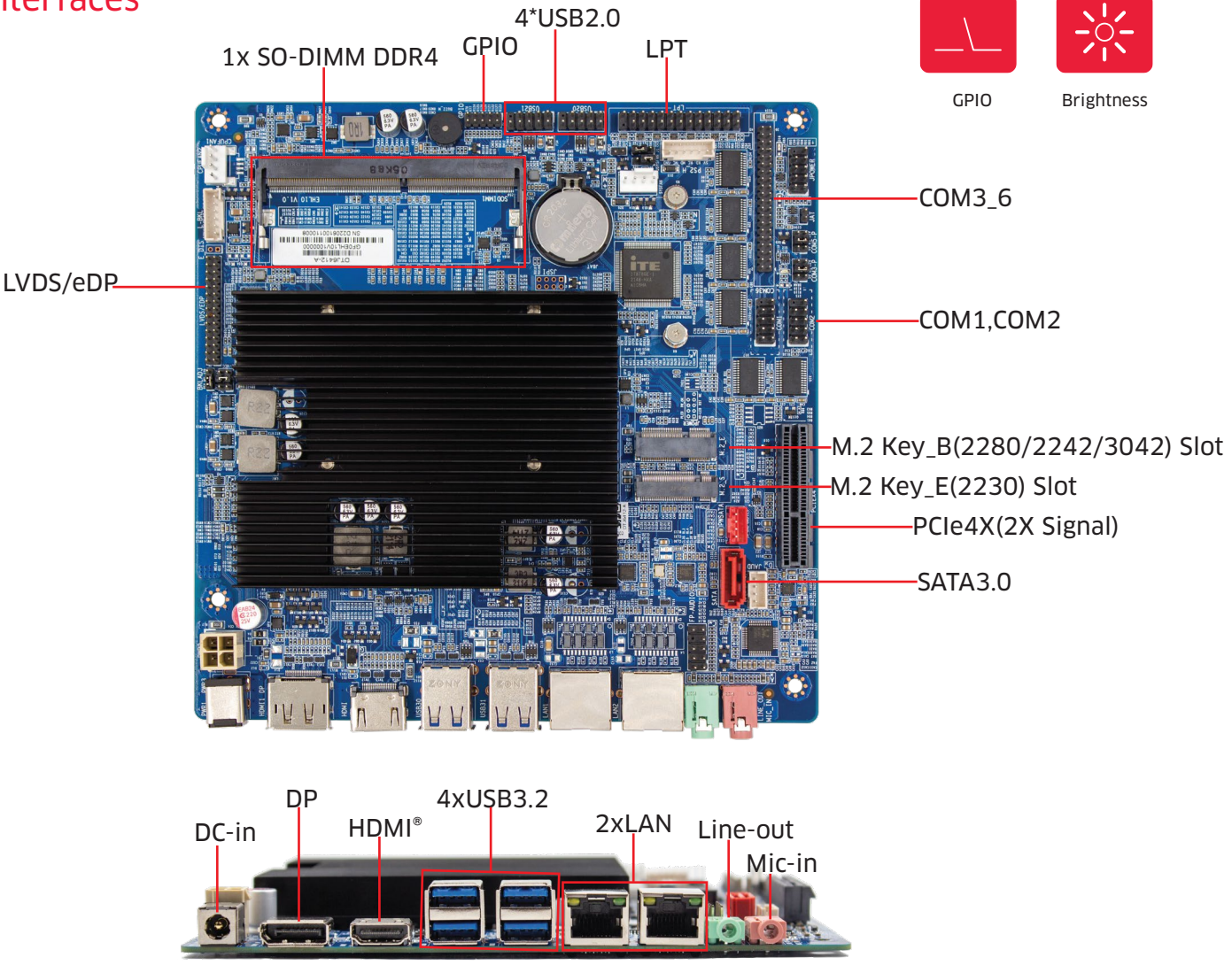
H/W Monitor

Watchdog

GPIO

Brightness

I/O Interfaces

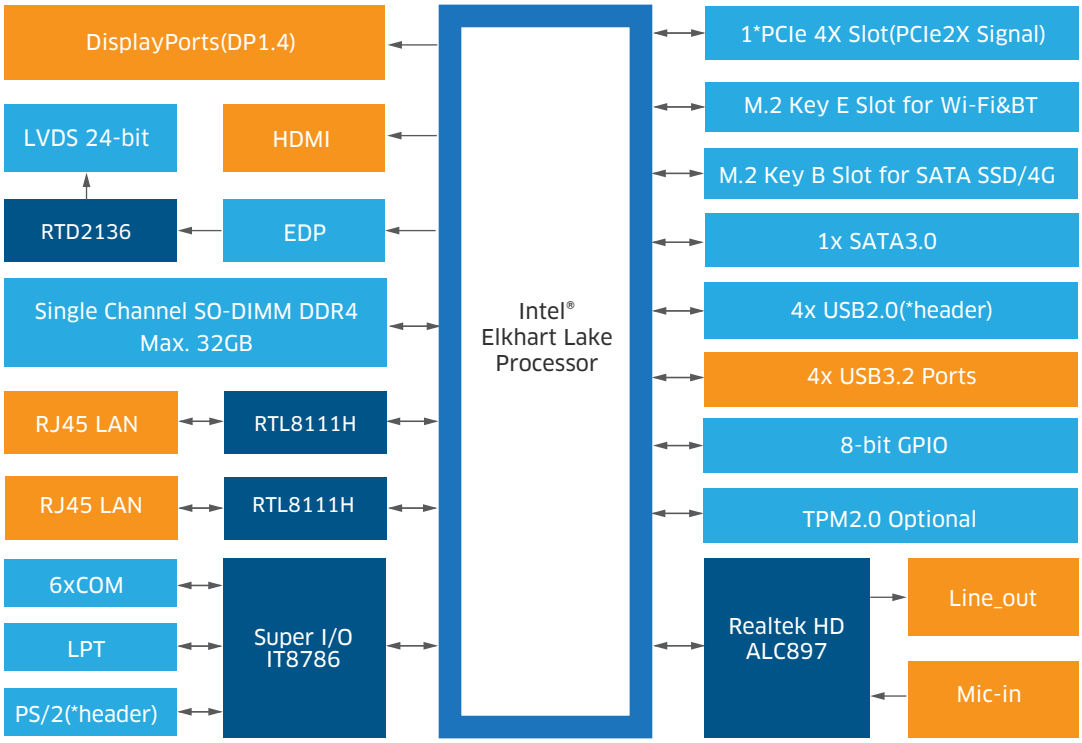


Technical Specifications

Processor	CPU	J6412	J6426	x6427FE	x6425RE
	Base Frequency	2.0GHz	2.0GHz	1.9GHz	1.9GHz
	Turbo Frequency	2.6GHz	3.0GHz	/	/
	Cache	1.5MB	1.5MB	1.5MB	1.5MB
	BIOS	AMI UEFI BIOS			
Memory	Type	Single Channel SO-DIMM DDR4			
	Max.Capacity	32GB			
Display	GPU	Intel® UHD Graphics for 10th Gen Intel® Processors			
	Interface	1xHDMI®, 1xDP, 1x LVDS/eDP			
Ethernet	Controller	2xRealtek® RTL8111H. Max.Speed:10/100/1000Mbps			
	Interface	2xRJ45			
	Wake on LAN	Yes			
Audio	Audio Codec	Realtek® ALC897 High Definition Audio Codec			
	Interface	1xLine-out, 1xMic-in, support audio header and power amplifier.			
Hardware Monitoring		CPU/System temperature, onboard voltage, watchdog, auto power on			
Storage	M.2	1×M.2 Key_B for 2280/2242 SATA SSD or 3024 4G Module			
	SATA3.0	1			
Expansion	M.2	1xM.2 Key_E for 2230 WiFi and Bluetooth Module			
	PCIe4X	1*PCIe4X Slot (PCIe2X Signal)			
	SIM	1xSIM slot (optional, backside)			
I/O Interface	COM	6xRS232(COM2 configurable as RS485 through hardware changes)			
	USB3.2	4			
	USB2.0	4*header			
	GPIO	8-bit			
	LPT	1			
	PS/2	1*header			
	TPM2.0	Onboard, optional			
Dimension	Size	170mm×170mm			
	Form Factor	Mini-ITX			
Power	Standard Port	12V DC-in /4-PIN Power Connector			
	Peripheral Input	For Fan and SATA			
	Operating Temp.	-20°C ~60°C			
	Storage Temp.	-40°C ~80°C			
Operating System		Win10/11 64 bit, Linux 64 bit			

* All specifications and photos are subject to change without notice.

Functional Block Diagram



Order Information

Model Name	Description
DTJ6412-A	DT MINI-ITX Intel Celeron J6412 EHL10 2LAN 6*RS232 DP+HDMI+LVDS
DTJ6412-A-485	DT MINI-ITX Intel Celeron J6412 EHL10 2LAN 5*RS232 1*RS485 DP+HDMI+LVDS

*For customized options, please consult regional sales. And please confirm the model name and description before purchasing. *The model name and description might vary due to inventory changes.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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