

JSL-15

Intel® Jasper Lake Processor based Mini ITX Motherboard



Features

- CPU: Intel Jasper Lake processors
- Memory: Single Channel SO-DIMM DDR4 up to 16GB
- Display: Intel UHD Graphics display via HDMI, VGA and LVDS
- Ethernet: 10/100/1000 Mbps
- Storage: M.2 for SSD, SATA, eMMC optional
- Expansion: M.2 for WiFi, TPM2.0 for Security optional
- Power: 12V DC-in



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Introduction

The Maxtang JSL-15 mini-ITX embedded motherboard is based on Intel Jasper Lake processors, provides a complete PC platform with high performance. Features single Channel SO-DIMM DDR4 up to 16GB for memory and SATA, M.2 for storage. Intel integrated UHD graphics display via HDMI2.0, VGA, and eDP/LVDS. It supports WiFi and TPM2.0 for added Security. Rich interfaces include 1xLAN, 2xUSB3.2, and 5xUSB2.0 cater to most market's requirements.

The JSL-15 offers a lot of functionality right off the rear panel and its internal headers. The board is composed of high-quality components intended for a long-life operation, perfect for various applications. It retains a robust design like all other Maxtang products with stability, reliability, and cost advantages.



H/W Monitor



Watchdog

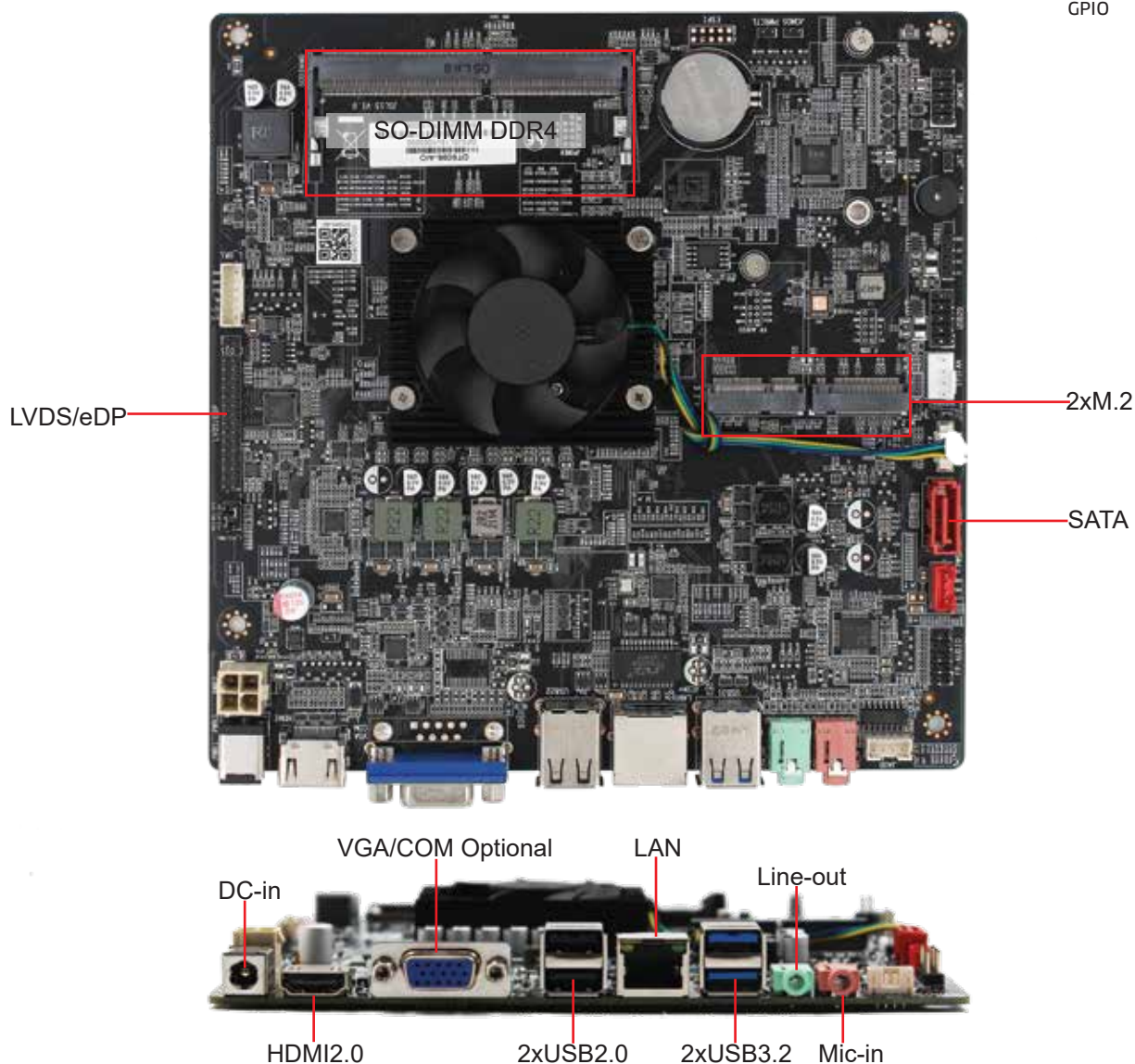


GPIO



Brightness

I/O Interfaces

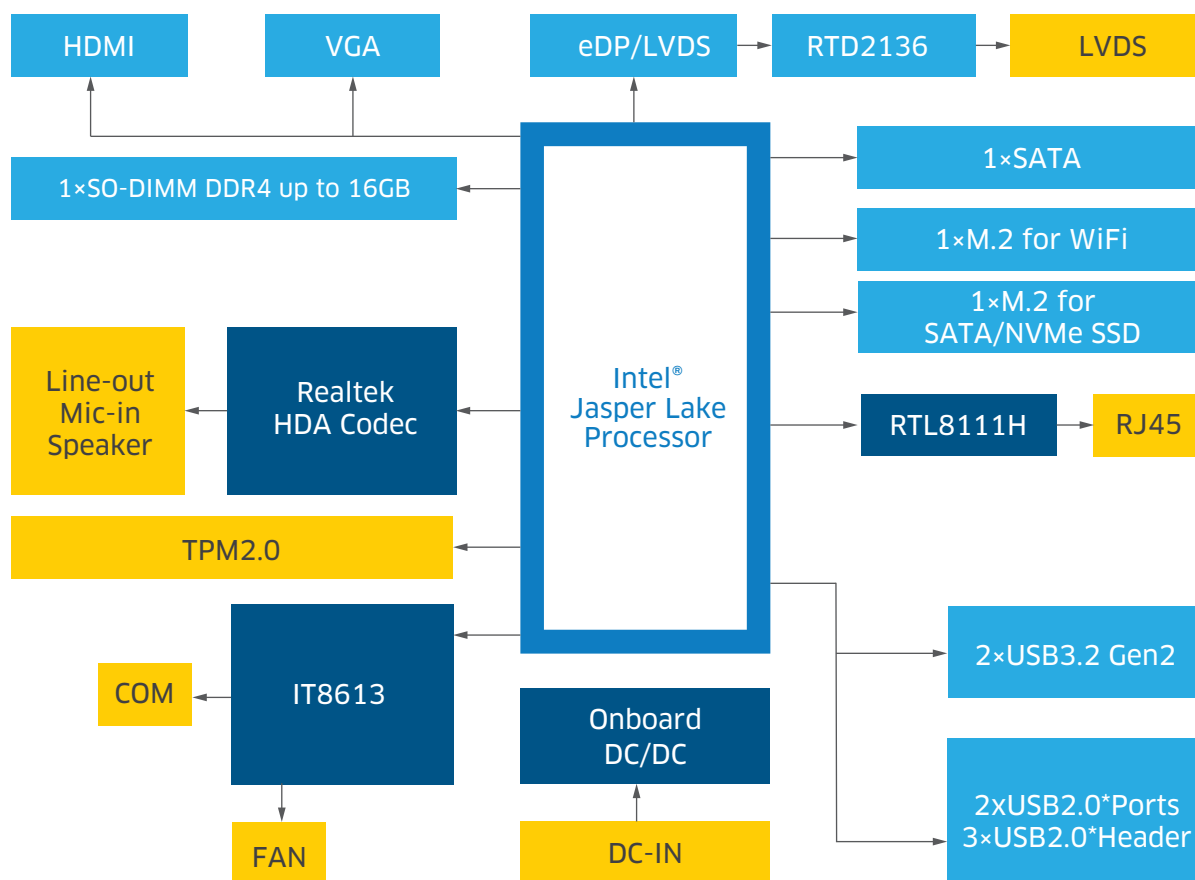


Technical Specifications

Processor	CPU	N5095/A	N5105	N4500
	# of Cores/Threads	4/4	4/4	2/2
	Burst Frequency	2.90GHz	2.90GHz	2.80GHz
	Base Frequency	2.00GHz	2.00GHz	1.10GHz
	Cache	4MB	4MB	4MB
	TDP	15W	10W	6W
	BIOS	AMI UEFI BIOS		
Memory	Type	Single Channel SO-DIMM DDR4		
	Max.Capacity	16GB		
Display	GPU	Intel Integrated UHD Graphics		
	Display via	1xHDMI2.0+1xVGA(Optional with COM)+1xLVDS/eDP		
Ethernet	Speed	10/100/1000Mbps		
	Controller	RTL8111H		
	Interface	1xRJ45		
	Wake on LAN	Yes		
Audio	Audio Codec	Realtek HD		
	Interface	Line-out, Mic-in, audio header, amplifier header		
Hardware		CPU System Temperature, Onboard voltage, Watchdog, Auto power on		
Storage	M.2	1×M.2 for SATA/NVMe SSD		
	SATA	1		
	eMMC	Optional		
Expansion I/O Interface	M.2	1×M.2 for WiFi		
	LAN	1		
	USB3.2	2		
	USB2.0	2*ports+3 *header		
	COM	1*RS232, Optional with VGA		
	Audio	1×Line-out, 1×Mic-in		
	TPM2.0	Onboard, optional		
	Size	170mm×170mm		
	Board Type	Mini-ITX		
Power	Standard Port	12V DC-in		
	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



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