PRODUCT DATASHEET
HW Rev.: V1.1

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

intel prestige partner Builder

Maxtang®
MAXIMIZING YOUR COMPUTING PRODUCTIVITY

Introduction

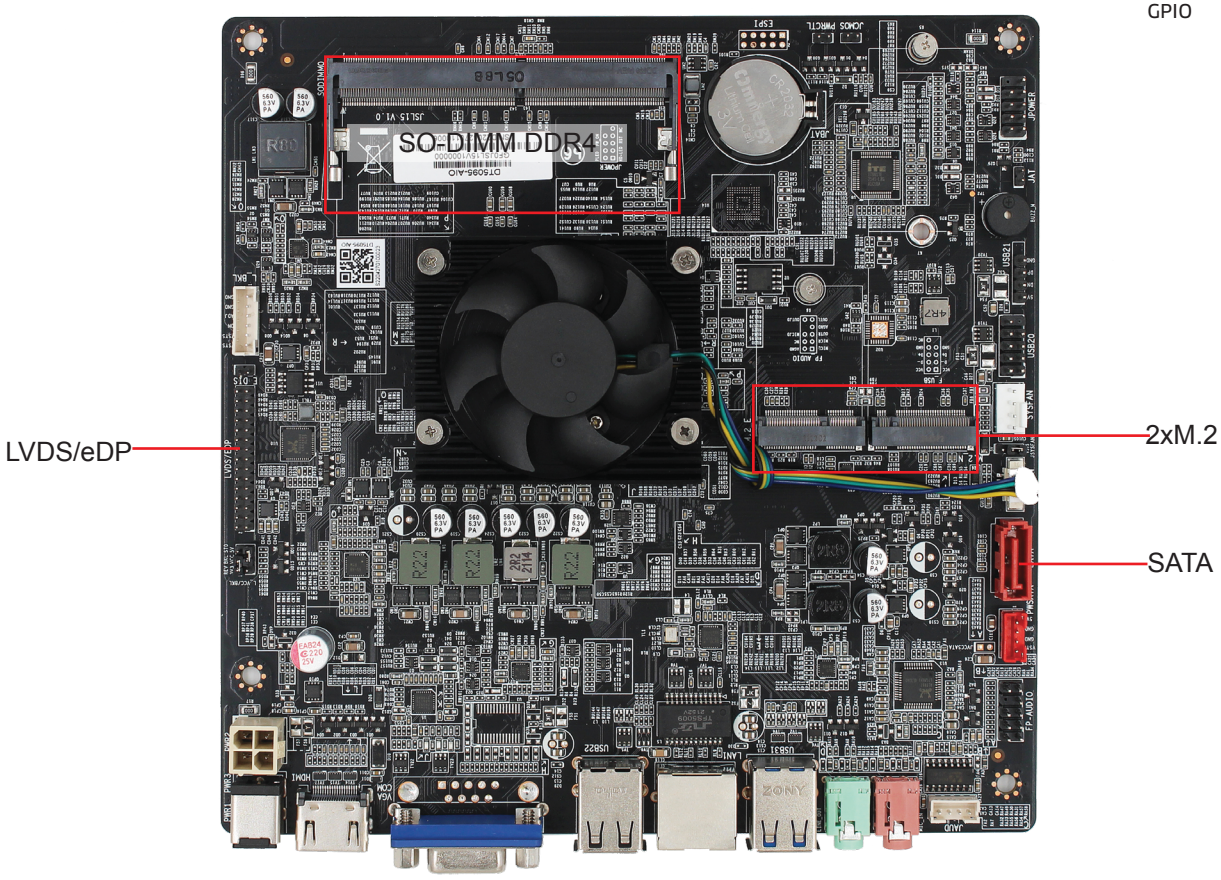
The Maxtang JSL-15 mini-ITX embedded motherboard is based on Intel Jasper Lake processors, provides a complete PC platform with high performance. Features single Channel SO-DIMM DDR4 up to 16GB for memory and SATA, M.2 for storage. Intel integrated UHD graphics display via HDMI2.0, VGA, and eDP/LVDS.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

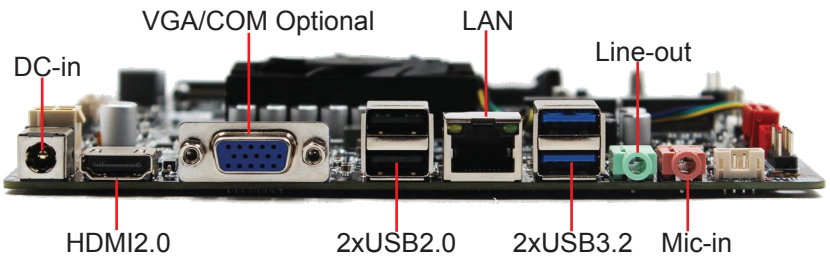
The JSL-15 offers a lot of functionality right off the rear panel and its internal headers. The board is composed of high-quality components intended for a long-life operation, perfect for various applications. It retains a robust design like all other Maxtang products with stability, reliability, and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

Linux
ubuntu
Windows 10

H/W Monitor
Watchdog
GPIO
Brightness

I/O Interfaces



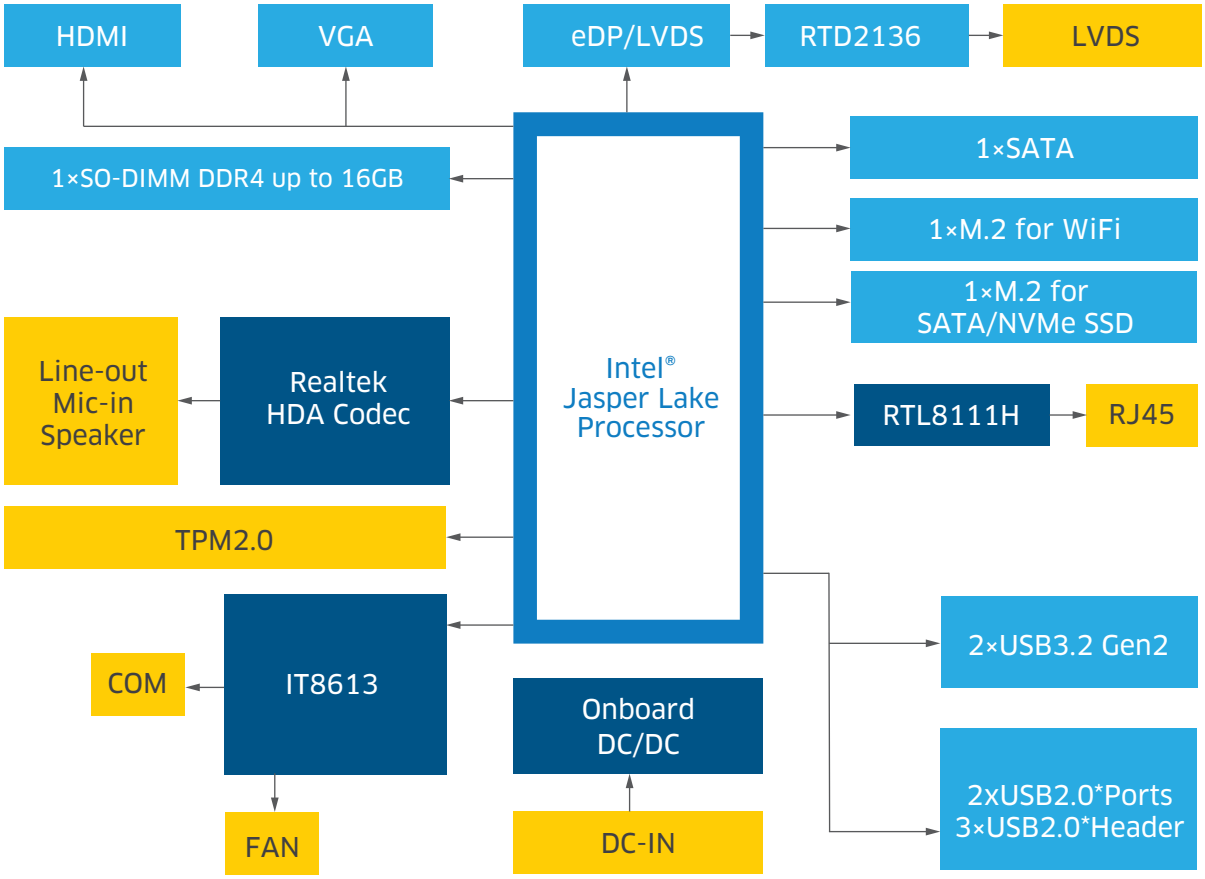


Technical Specifications

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	RJ45		
	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	M.2	1xM.2 for WiFi		
I/O Interface	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		
Dimension	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



Copyright © 2018 Maxtang Technology Co.,Ltd. All rights reserved. All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate however, no responsibility is assumed for inaccuracies. Maxtang and the Maxtang logo and all other trademarks or registered trademarks are the property of their respective owners and are recognized.

Maxtang®
MAXIMIZING YOUR COMPUTING PRODUCTIVITY

SHENZHEN MAXTANG COMPUTER CO., LTD.
303, 3/F, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China 518133
Tel.: +86 755 86143003 I Fax: +86 755 86143003 I info@datangpc.com

www.maxtangpc.com