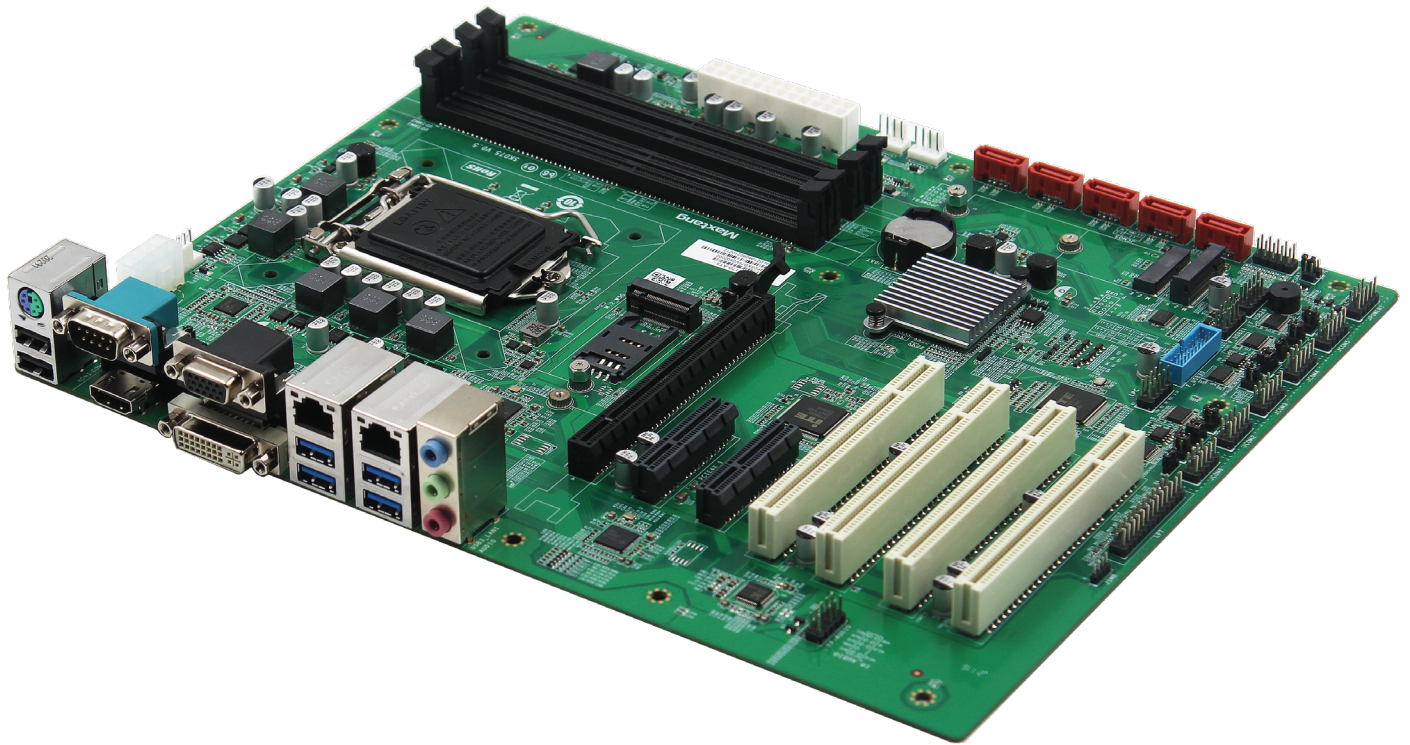


SKD-75 V1.0

Intel® 6th/7th/8th/9th Gen Core™, Pentium® Celeron®
ATX Motherboard with Q170 Chipset



Features

- CPU: Intel® 6th/7th/8th/9th Gen Core™, Pentium®, Celeron®
- Memory: 4x UDIMM DDR4 Up to 64GB
- Display: Integrated Intel® Graphics, display via HDMI+VGA+DVI
- Ethernet: 10/100/1000 Mbps
- Storage: M.2 for SATA SSD, 5*SATA(RAID 0,1,5,10)
- Expansion: M.2 for 4G/5G Module, M.2 for WiFi&BT, SIM Slot
PCIe16X, 2*PCIe4X, 4*PCI
- Power: ATX_24PIN + 8PIN/4PIN



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Introduction

The Maxtang SKD-75 ATX motherboard is a high-performance solution designed for industrial applications, offering exceptional flexibility and reliability. Compatible with Intel 6th, 7th, 8th, and 9th generation processors (i3, i5, i7, Celeron, Pentium) and powered by the Intel Q170 chipset, it delivers robust computing performance for demanding tasks. The SKD75 supports 4x dual-channel UDIMM DDR4 memory and multiple display outputs, ensuring efficient multi-tasking and versatile visual setups. It also features dual Gigabit Ethernet controllers, M.2 slots for storage, Wi-Fi, and 4G/5G connectivity, as well as a comprehensive array of I/O ports, including 6xCOM, 12xUSB, and audio connectors. Built for durability and designed to meet the needs of mission-critical environments, the Maxtang SKD75 is the ideal choice for applications requiring high reliability, scalability, and performance.



H/W Monitor



Watchdog

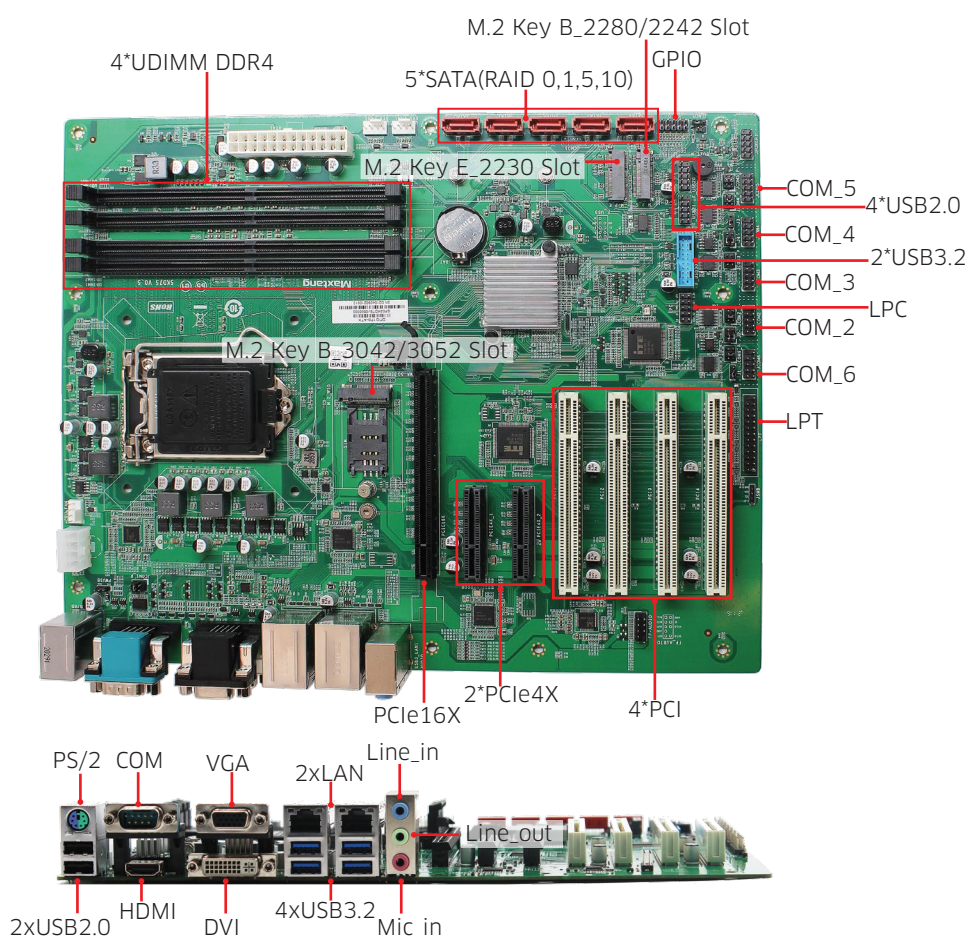


GPIO



Brightness

I/O Interfaces



Technical Specifications

Processor	CPU	Intel® 6th/7th/8th/9th Gen Core™ i3/i5/i7, Pentium, Celeron® Processors
	Socket	FCLGA1151 Socket
	Chipset	Q170
Memory	Type	4x UDIMM DDR4
	Max. Capacity	Up to 64GB
Display	GPU	Integrated Intel® HD/UHD Graphics
	Interface	1xHDMI, 1xVGA, 1xDVI-D
Ethernet	Controller	Intel® i210. Max. Speed: 10/100/1000 Mbps
	Interface	2x RJ45
Audio	Audio Codec	Realtek High-Definition Audio Codec
	Interface	1xLine-in, 1xLine-out, 1xMic-in
Hardware Monitoring		CPU system temperature, onboard voltage, watchdog
Storage	SATA	5x SATA3.0, support RAID 0,1,5,10
	M.2_S	1x M.2 Key B_2280/2242 for SATA SSD
	M.2_E	1x M.2 key E_2230 for Wi-Fi and Bluetooth Module
Expansion	M.2_W5G	1x M.2 Key B_3042/3052 for 4G/5G Module
	SIM Slot	1
	PCI	4
	PCIe	1*PCIe16X +2*PCIe4X
I/O Interface	COM	6xCOM: 6*RS232 by default.
		The COM2, COM4 can be set as RS485 by jumper
	USB2.0	6xUSB2.0: 2*ports+ 4*header
	USB3.2	6xUSB3.2: 4*ports + 2*header
	PS/2	1*PS/2 for keyboard and mouse
	GPIO	8-bit
	LPT	1
	LPC	1
	Buzz_M	1
	TPM2.0	Optional
Dimension	Size	305mm x 244mm
	Board Type	ATX
Power	Standard Port	ATX_24PIN + 8PIN/4PIN
	Peripheral Input	For Fan and SATA
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Operating System		Windows 7/8.1/10, Linux

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

The diagram illustrates the system architecture centered around the Intel® Q170 Chipset. The CPU (Intel® 6th/7th/8th/9th Generation CPU, LGA1151 Socket) is connected to the PCH (Intel® Q170 Chipset) via the DMI (Direct Media Interface). The PCH is connected to various components, including:

- Storage:** M.2 for SATA SSD, M.2 for 4G/5G + SIM Slot, 2*PCle 4X, 2*Intel i210, 2*RJ45, Line_in, Line_out, Mic-in, Realtek HD, 8-bit GPIO, 4*PCI, LPT, COM1, COM2_6, PS/2, and IT8786.
- Expansion:** PCIe 16X, 4x UDIMM DDR4, M.2 for WiFi & Bluetooth, 5*SATA(RAID0,1,5,10), 6*USB2.0 (2*Ports+4*headers), 6*USB3.2 (4*Ports+2*headers), IT8892, and 4*PCI.
- Other:** HDMI, DVI-D, VGA, and COM1.

The diagram shows the connections between the CPU, PCH, and various peripheral components, highlighting the system's capabilities and connectivity options.

Model Name	Description
DTQ170-ATX	DT Intel Q170 SKD75 ATX 2LAN 6COM 1xPCIE16X+2xPCIE4X+4xPCI

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