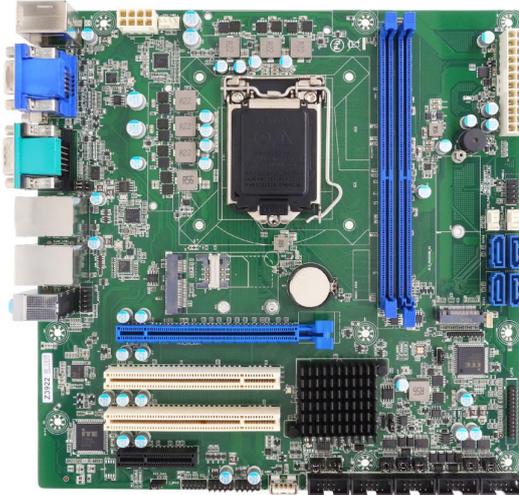


MATX-I953-T001

Intel® 6/8/9th Core™/Pentium/Celeron series CPU, Dual channel 2*DDR4 U-DIMM, VGA+HDMI+DVI, 2*LAN, 4*USB 3.1, 7*USB 2.0, 6*COM, 2*PCIe+2*PCI, ATX power supply

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High-performance expandable Single Board Computer-SBC



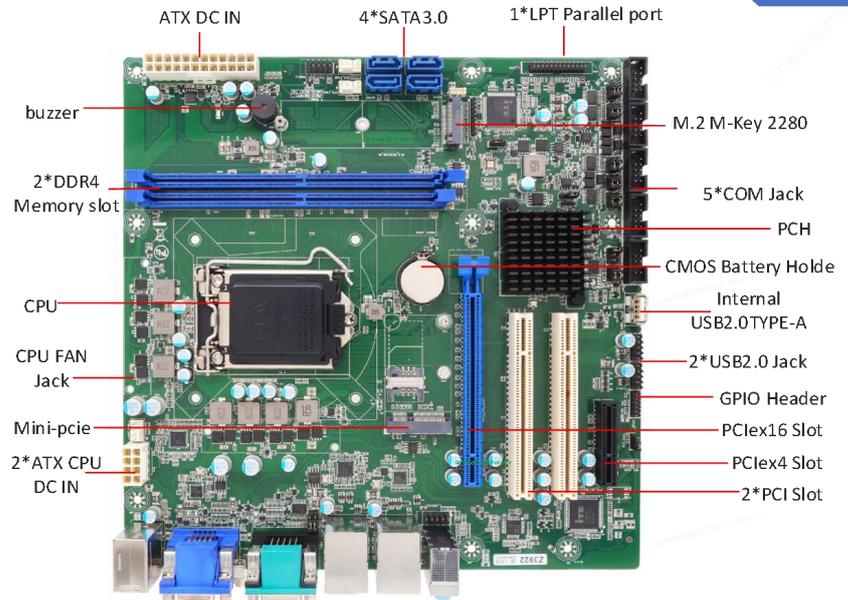
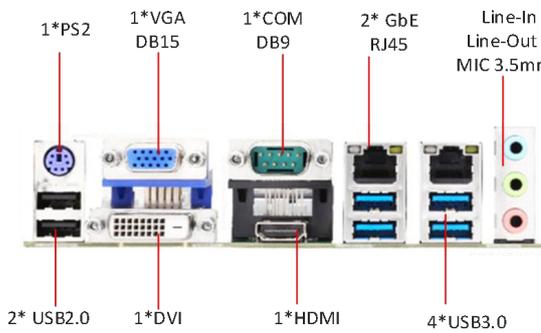
Key Features

- Intel®6/8/9th Core™/Pentium/Celeron series CPU
- Intel® Z390 chipset
- Dual channel 2*DDR4 U-DIMM, 2666MHz, up to 2*32GB
- 4*SATA3.0; 1*M.2-2280(NVMe)
- 1*PClex16 slot, 1*PCIe x4 slot, 2*PCI slot
- 4*USB3.1+7*USB2.0, 2*LAN Gigabit network port
- 6*COM, 4*GPI+4*GPO
- 1* HDMI*VGA+DVI, 1* Line out+MIC in+Line in
- 1* Mini PCIe with SIM card slot
- Standard ATX power supply

Description

MATX-I953-T001 is an industrial motherboard equipped with the Intel Z390 chipset and supporting Intel® 6/8/9th Core™/Pentium/Celeron series processors. It has dual-channel memory and rich interfaces, and is designed in accordance with the standard Micro ATX motherboard specification. It is compatible with 4U and wall-mounted chassis available on the market and is suitable for multiple fields such as intelligent industry, smart transportation, and the Internet of Things.

I/O View

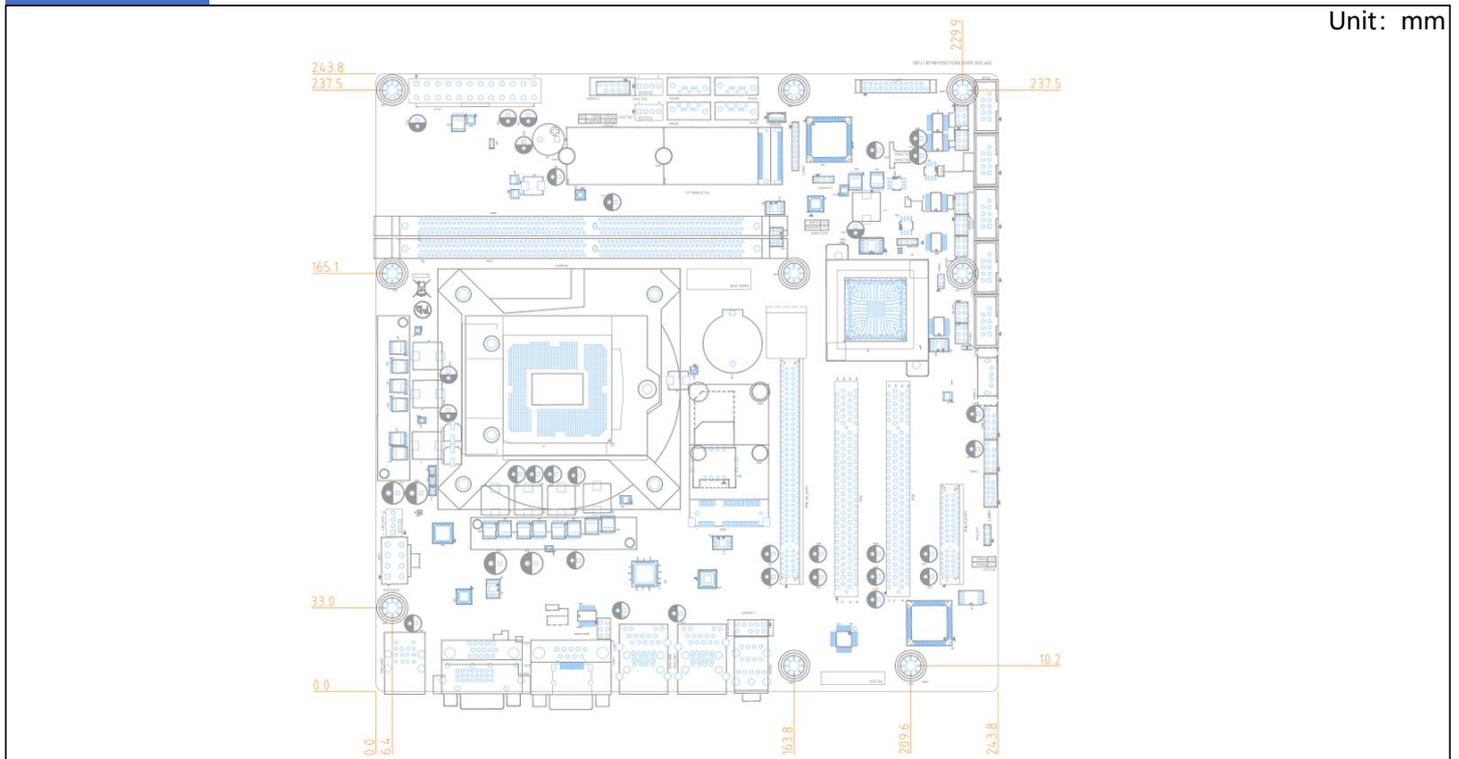


SPEC.

CPU	Intel® 6/8/9th Generation Core™/Pentium/Celeron Desktop processor, LGA1511, support MAX CPU TDP: 65W
Chipset	Intel® Z390, TDP 6W
BIOS	AMI UEFI BIOS
Memory	Dual channel, 2*DDR4 No ECC U-DIMM, 2133/2400/2666MHz, up to 2*32GB
Storage	4*SATA3.0, support RAID0,1,5,10; 1*M.2-2280(NVMe), PCIE x4/SATA, support NVMe/SATA SSD automatic detection
Graphics	1*HDMI+1*VGA+1*DVI, HDMI max. res. 4096x2160@30Hz, VGA max. res. 1920x1200@60Hz, DVI max. res. 1920*1200@60Hz
Audio	1*Line out,1*MIC in,1*Line in; Realtek Audio HDA Codec, support 5.1 channel
LAN	2*RJ45 Gig. Ethernet, 1*I219V和1*I210AT chip, 10/100/1000M self-adapt
USB3.1	4*USB3.1 Type-A
USB2.0	7*USB2.0 (3*USB2.0 Type-A + 4*Header)
COM	6*COM (1*RS232/422/485 + 1*RS232/485 + 4*RS232)
Parallel port	1*LPT Parallel port, 2*13PIN
GPIO	4* GPI+ 4* GPO, Port voltage 3.3V (default), 5V (optional)
PS/2	1*PS/2, Keyboard & Mouse

Expansion	1* MINI-PCIe, PCIe + USB2.0, SIM card slot, support WiFi+BT or 4G LTE 1* PCIeX16 slot (PCIeX16 Gen3) , 1* PCIe x4 slot (PCIe X4 Gen3) , 2* PCI, 33MHz/66MHz
Power	2*Internal standard (2*12PIN ATX includes 3.3V/5V/12V, 1*8PIN ATX 12V for CPU)
RTC	1*CR2032 RTC Battery
Switch button	1* Power switch, 1* Reset button, 1*AT/ATX selector switch, 1* Clear CMOS switch
Pilot lamp	1*Power LED, 1*HDD LED
TPM	fTPM2.0, BOM optional support TPM (SLB9670, TPM2.0)
Watchdog timer	Programmable 1- 255 seconds
OS Support	Windows 7(SKL-S support 32bit and 64bit), Windows 10/11 64bit, Linux
Dimension	244mm * 244mm, PCB: 1.6mm
Operating temperature	0°C ~ 60°C
Storage Temperature	-20°C~75°C
Storage Humidity	5~95%@40°C, Non-condensing

Dimension



Ordering Info

Model No.	CPU+PCH	Introduction
MATX-I953-T001	Intel SKL/CFL-S/CFL-Refresh LGA1151 CPU+Z390 PCH	2*DDR4 U-DIMM, 2*LAN, 4*USB3.1, 7*USB2.0, 6*COM, 1*PCIe X16, 1*PCIeX4, 2*PCI, 1*Mini PCIe, 1*M.2 M- Key,1*HDMI,1*DVI-D,1*VGA, 8位DIO, 1*Audio out&Mic, 1*PS2,1*LPT,4*SATA3, 24-pin ATX/8-pin ATX 12V

Accessory Pack

Standard Accessories	Description	Amount	Optional Components	Description
Serial ports cable	DB9 male, 300mm	2	DIO cable	DB9 male, 300mm
SATA cable	SATA 7pin data cable, 420mm	2	Audio cable	Three in a row(Line-out/Line-in/Mic) 3.5mm jack, 300mm
953 I/O block slice	Full IO opening, 0.5mm stainless steel	1	Serial ports cable	DB9 male, 300mm
Screw&jumper package	Two M2 and two M2.5 screws+two 2.0 and two 2.5 jumper caps	1	USB2.0 cable	Two in a row Type A, 300mm
			Parallel port cable	DB25 female, 300mm
			PS/2 cable	Two in a row 6pin S-female Keyboard and mouse port, 300mm
			SATA cable	SATA 7pin data cable, 420mm
			CPU radiator1	LGA115X, TDP 35-65W wind-cooling radiator
			CPU radiator2	LGA115X, TDP 95W wind-cooling radiator