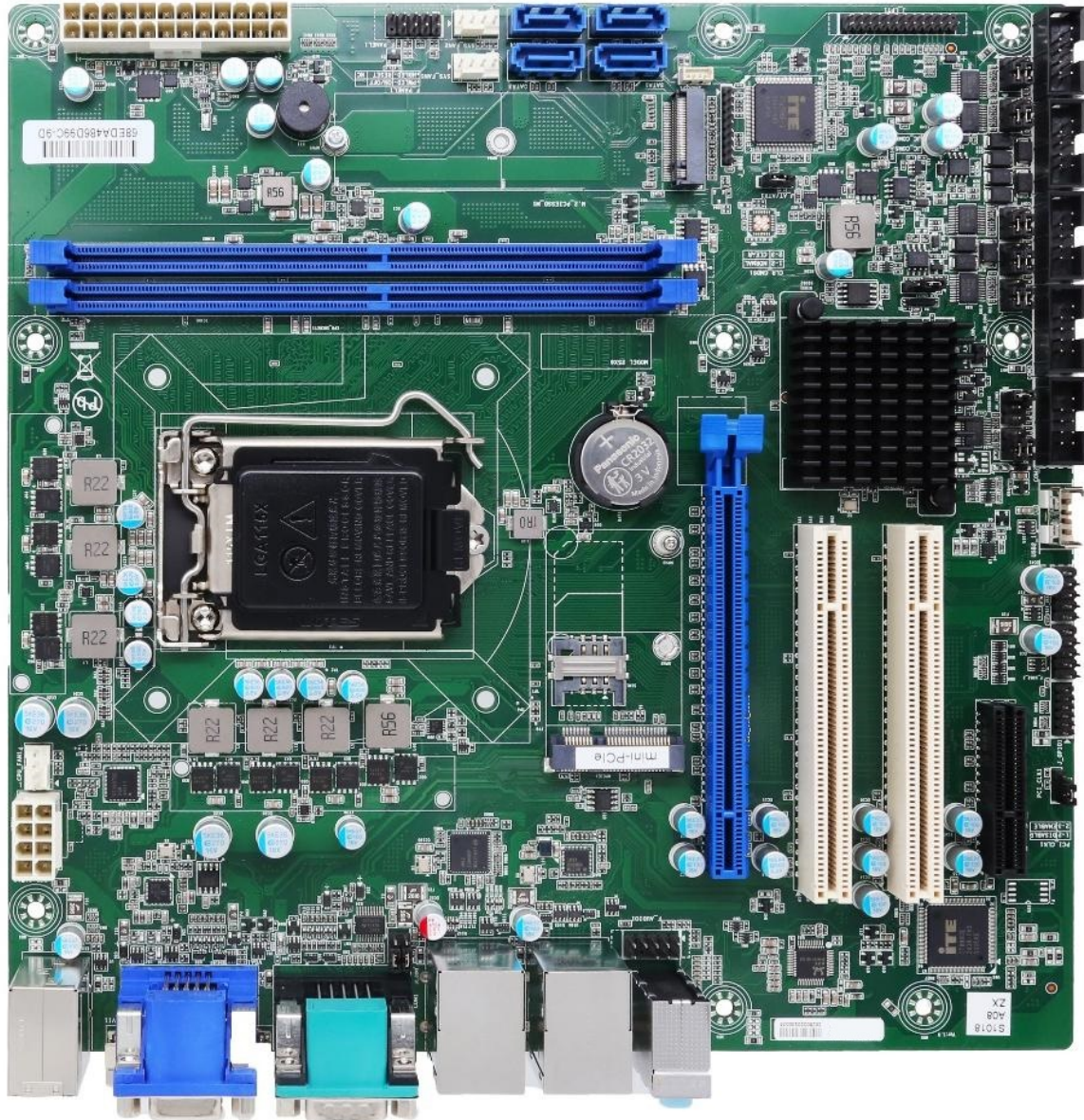


HE-Z390-MA-RC-X8 Brochure



Specification

Model	Model	HE-Z390-MA-RC-X8
Processor System	Processor	Support Intel® 6/8/9 th Generation Core™/Pentium®/Celeron® Desktop processor, LGA1151 Support MAX CPU TDP: 65W PL1
	PCH	Intel® Z390, TDP 6W
	BIOS	AMI UEFI BIOS
Memory	Slot Type	2, DDR4 Non-ECC U-DIMM
	Memory Type	DDR4 2666 MHz
	Max Memory	2*32 GB
	Channels	Dual
Display	HDMI1	1, HDMI, max 4096*2160@30Hz
	VGA	1, VGA max 1920x1200@60Hz.
	DVI	1, DVI-D, max 1920x1200@60Hz
	Multi-Display	Triple
Audio	Codec	Realtek Audio HDA codec
	Audio	1, Line-Out + MIC +Line-in 1, Line-Out + MIC
Storage	SATA	4, SATA Gen3 6Gbps
	M.2 SSD	1, M.2 M-Key 2280, PCIe Gen3 X4 /SATA, support NVMe/SATA SSD, Auto Detect
Expansion Slot	MINI-PCIe	1, MINI-PCIe, PCIE+USB2.0, support WiFi+ Bluetooth/4G
	PCIE X16	1, PCIE 16x Slot
	PCIE X4	1, PCIE 4x Slot
	PCI	2, PCI port, support 33MHz/66MHz Select by Jumper
	SIM	1, Full Size SIM
Ethernet	Chipset	1, Intel® I219V GbE Ethernet Controller 1, Intel® I210AT GbE Ethernet Controller
	PXE/RPL Boot	Yes
	Wake On LAN	Yes
USB	USB3.0	4, USB3.2 5Gbps

	USB2.0	7, USB2.0
I/O	Serials	4, RS232, COM1/2/5/6 1, RS232, COM3 1, RS232, COM4 <i>Notes: COM3 BOM optional RS485 or RS422. COM4, BOM optional RS485</i>
	Parallel	1
	SMBus	1
	FAN	1, CPU FAN 2, System FAN
	PANEL	1, PWR On +Reset +PWR_LED +HDD_LED
	Case Open	1
	PS/2	1
	AT/ATX Select	1, default ATX mode
	CMOS Clear	1, default normal
GPIO	GPIO	8, 4* GPI+ 4* GPO, non-isolated 3.3V <i>Note: BOM optional support 5V.</i>
Power	Power in	2, Internal ATX 12V
	RTC	1, CR2032 Battery
Others	TPM	fTPM2.0 <i>Notes: BOM optional support dTPM2.0, SLB9670.</i>
	Watch Dog Timer	System reset, programmable 1-255 sec or min,
	HW Monitor	System-temp, CPU-temp, Voltage-12V,5V,3.3V, Vcpu, Vddr
OS	OS Supported	Windows 10/11 64bit, Linux
Environment	Temperature	Operation: 0 ~ 60°C Storage: -20 ~ 75°C
	Humidity	5 ~ 95%, non-condensing
Mechanical	Dimension	243mm * 243mm
	Height	PCB: 1.6mm