

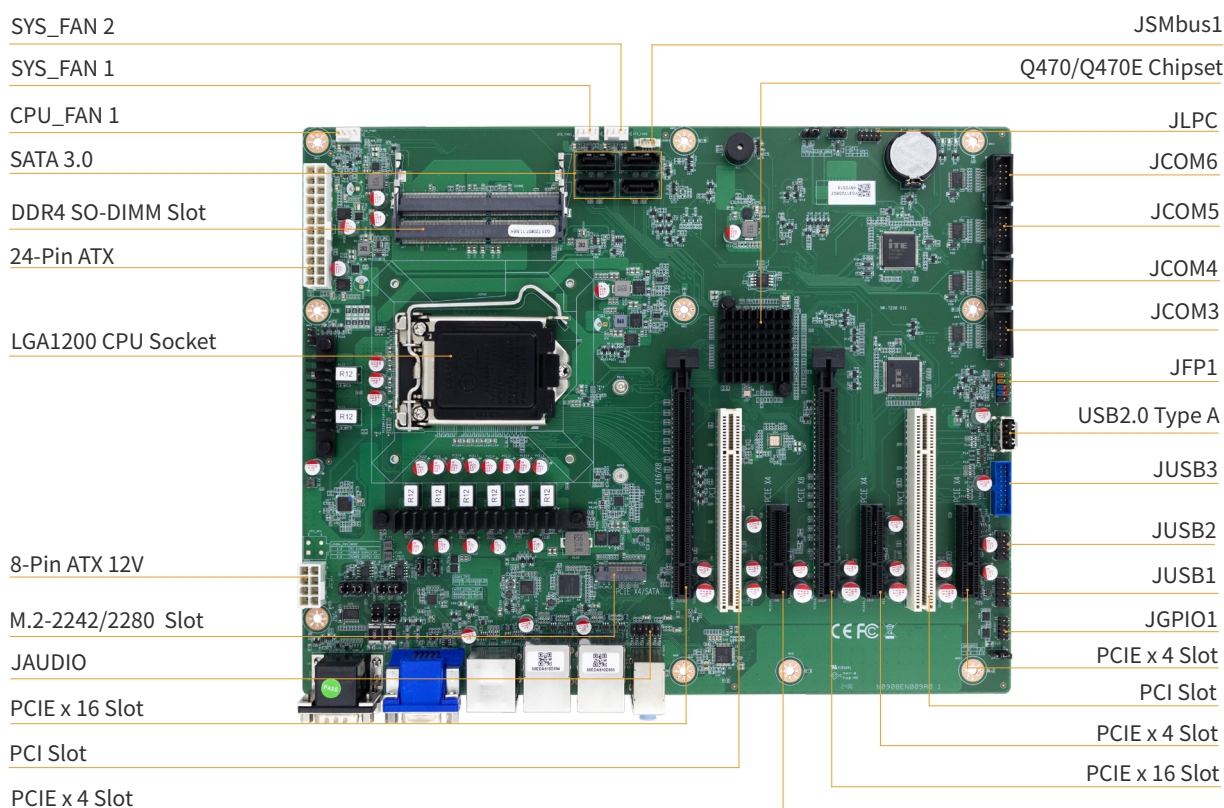
NK-7208

11th processor Q470/Q470E Chipset ATX Motherboard

01 Feature

- Intel® 11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
- Support dual channel(Non-ECC) DDR4-2933/3200MHz SO-DIMM slot , up to 64GB
- Support VGA,HDMI,DP Tri-Display
- 2 x Giga-bit Ethernet,
- 8 x USB3.0 ports, 5 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 4 x SATA3.0 support software RAID 0,1,5,10, 1 x M.2-2242/2280 SATA/PCIE(11th Gen. processors) Slot
- 2 x PCIeX16(1x 16 or 2x 8 link), 3x PCIe X 4, 2 x PCI slots

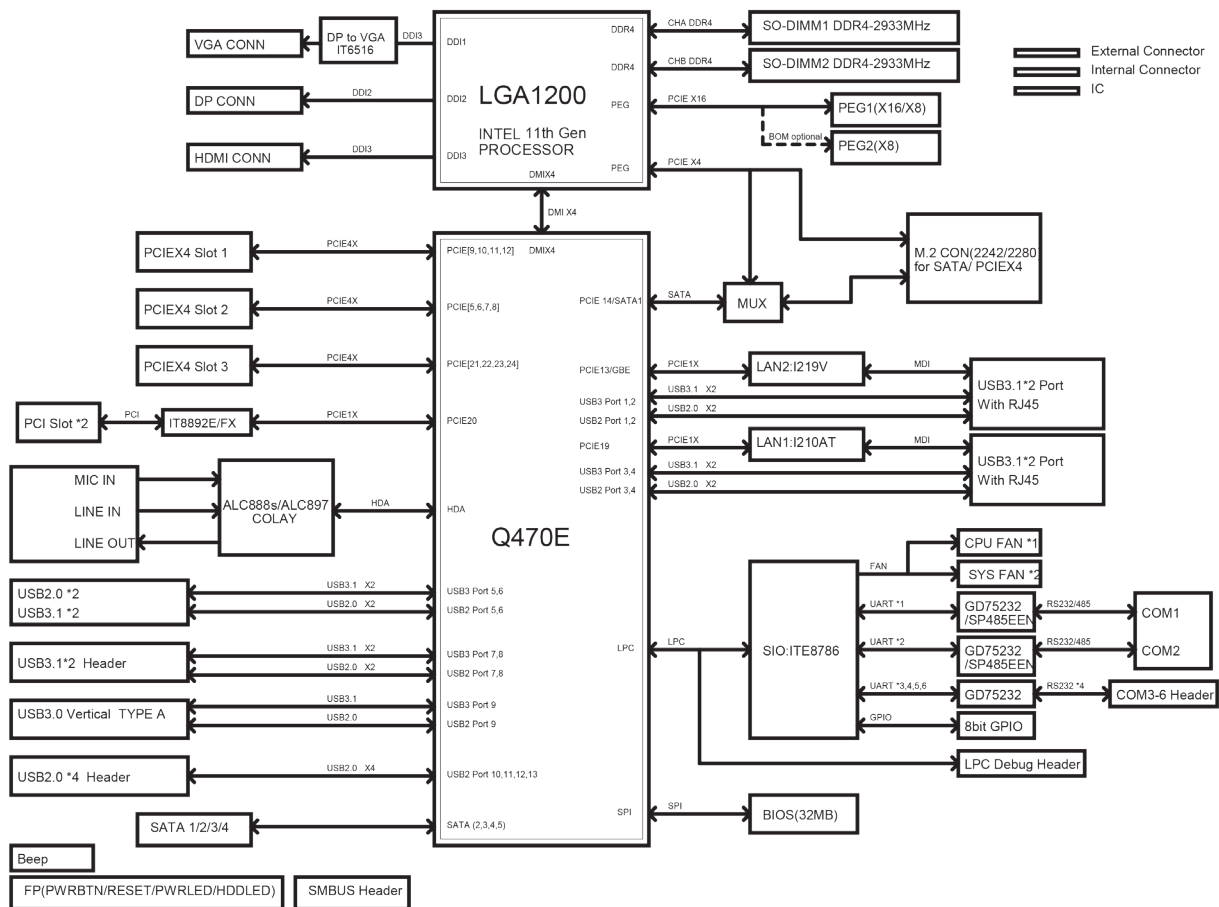
02 I/O Layout



03 Specification

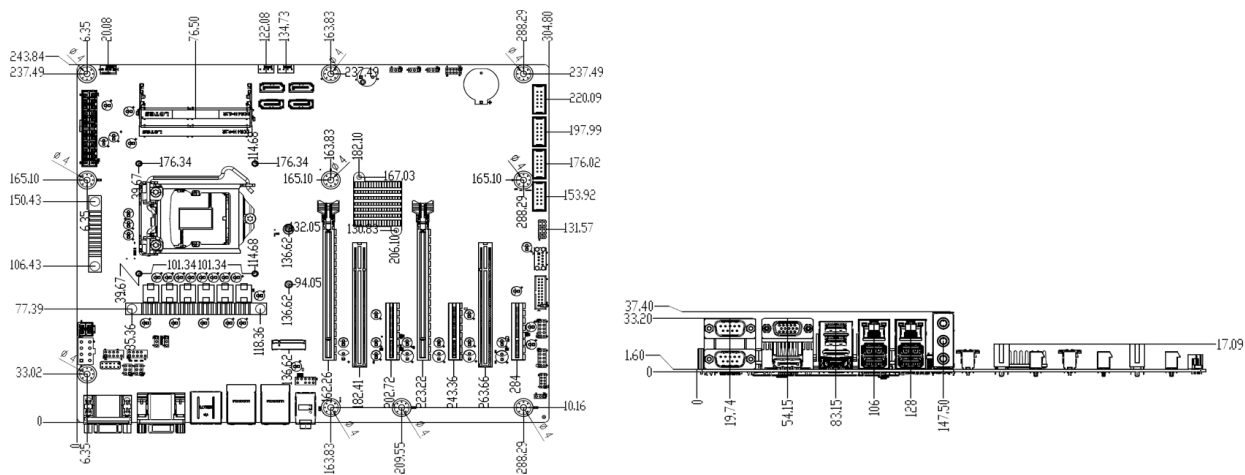
Project		Content
Processor System	CPU	Intel® 11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
	Socket	LGA1200
	Chipset	Intel Q470/Q470E
	BIOS	AMI 256Mb UEFI BIOS
Memory	Technology	Dual Channel(Non-ECC) DDR4-2933/3200MHz, up to 64GB
	Slots	2 x DDR4 SO-DIMM slots
Storage	SATA	4 x SATA3.0 (up to 6Gb/s) ,support RAID 0/1/5/10
	M.2 SSD	1 x M.2-2242/2280 Key M slot (SATA3.0/PCIE(11th Gen. processors) Signal)
Graphic	Controller	Intel HD graphics integrated
Audio	Codec	Realtek ALC 897 codec
Rear I/O	Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096 x 2160@30Hz
	Ethernet	2 x GbE(RJ45) ;LAN1: Intel i219-V controller ;LAN 2: Intel i210AT controller
	USB	6 x USB3.0(5Gbps)
	Serial	2 x RS485/232
	Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
Internal I/O	USB	2xUSB3.0 Pin header(1x2*5pin),4xUSB2.0 Pin header,(2x2*5pin),1 x vertical USB2.0 type-A connector
	Serial	4 x RS232 wafer(2*5pin)
	LPC	1 x LPC header(2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	SMbus	1 x SMbus wafer(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)
Expansion Slots	PCIe X16	2 x PCIeX16(Gen3) slots (1 x 16 or 2 x 8(default) link)
	PCIe X4	3 x PCIeX4(Gen3) slots
	PCI	2 x PCI slots
Watchdog Timer	Output & Interval	System reset, programmable from 1~255 sec
Security	TPM	fTPM2.0
Power	Type	ATX Power Input: 24-Pin ATX + 8-Pin ATX 12V
O.S Support	Microsoft Windows	Windows 10 /11
	Linux	Linux
Mechanism	Dimensions	(L)305mm x(W) 244mm
	Gross Weight	0.73KG
Environment	Operating	0°C ~ 60°C
	Storage	-40°C ~ 85°C
	Humidity	5~95% (Non-condensing)

04 Block Diagram



05 Mechanical Drawing

Unit: mm



06 Order Information

Part No.	Model	Description
F31.720801.10.NEK	NK-7208	ATX, Q470, 11th, 2*DDR4 SO-DIMM, M.2-2242/2280(SATA3.0/PCIE), ATX power Input,

07 Packing List

Part No.	Qty	Description
KF0.001015.00.L54	2	Single COM port Cable(Length=500mm)
KF0.001025.00.L54	1	Single SATA Date Cable(Length=600mm)
L91.000117.00.G35	1	Single I/O Port Bracket

Note: Driver CD is not provided. Please visit Nodka support website for driver download.

08 Optional Accessories

Part No.	Description
L45.000013.00.B14	LGA1151 2U CPU Cooler,TDP up to 125W
L45.000018.00.B14	LGA1151 4U CPU Cooler,TDP up to 125W
KF0.001015.00.L54	Single COM port Cable(Length=500mm)
KF0.001092.00.L54	Dual COM Cable with Bracket(Length=300mm)
KF0.001025.00.L54	Single SATA Date Cable(Length=600mm)
KF0.001091.00.L54	1 in 2*USB3.0 Type-A Y Cable with Bracket(Length=300mm)
KF0.001090.00.L54	1 in 2*USB2.0 Type-A Y Cable with Bracket(Length=300mm)
L91.000117.00.G35	Single I/O Port Bracket