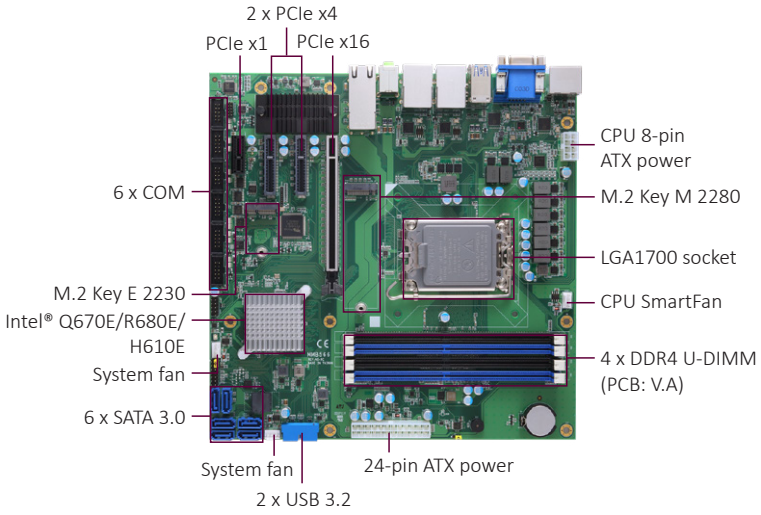
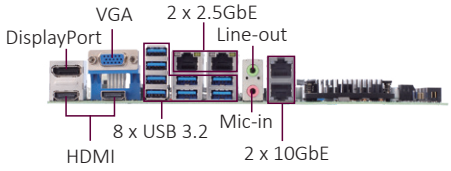
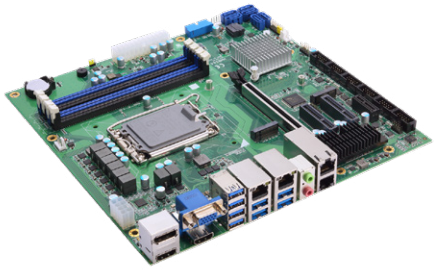
MMB566 NEW

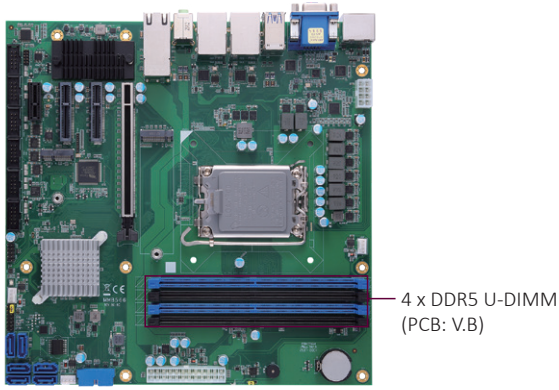
Micro ATX Motherboard with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ Processor, Intel® Q670E/R680E/H610E, 2 HDMI, 1 DisplayPort++, 1 VGA, 2 2.5GbE LAN, and 2 10GbE LAN

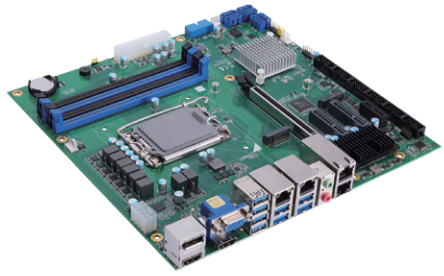






▲ DDR4 Side view





▲ DDR5 Side view

Quad-View | DDR4 | DDR5 | M.2 | 2.5GbE

Features

- Server-grade core computing with 125W processor support
- Next-gen DDR4/DDR5 dual-platform compatibility
- Massive 10GbE & 2.5GbE multi-gigabit network bandwidth
- Immersive quad-view display for automated monitoring
- Industrial-grade storage redundancy with high-speed M.2
- Versatile legacy connectivity & advanced hardware security

Specifications

Core System	
CPU	LGA1700 socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor (up to 125W)
System Memory	4 x DDR4-3200 UDIMM, up to 128GB (PCB: V.A) 4 x DDR5-5600 UDIMM, up to 192GB (PCB: V.B) * Only R680E SKU supports ECC memory.
Chipset	Intel® Q670E/R680E/H610E
BIOS	AMI
Storage	1 x M.2 Key M 2280 with NVMe (H610E SKU is not supported)
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 2 x PCIe x4 (H610E SKU is not supported) 1 x PCIe x1 1 x M.2 Key E 2230
Battery Lithium	Lithium 3V/220mAH
Power Input	24+8-pin ATX connector with AT Mode Auto Power support
Power Consumption (Max.)	Max. Load: +12V @ 3.2A, +5V @ 2.8A, +3.3V @ 1.2A, +5VSB @ 0.1A (57W) Idle Mode: +12 @ 0.1A, +5V @ 0.1A, +3.3V @ 0.1A, +5VSB @ 0.6A (5W) Note: Power consumption measured under maximum system loading using a 125W CPU.
Display	
Graphics Core	Intel® UHD Graphics 700 series engine
Display Interface	1 x DisplayPort++ 1 x VGA 2 x HDMI
I/O	
External	2 x 2.5GbE LAN with Intel® I226-LM 2 x 10GbE LAN with Intel® X550-AT2 (optional) HD Codec audio as Mic-in/Line-out with Realtek ALC888S 8 x USB 3.2 Gen 1
Internal	6 x SATA 3.0 with RAID 0/1/5/10 2 x USB 3.2 Gen1 with 19-pin box header 2 x USB 2.0 with 2 x 5-pin wafer 2 x RS-232/422/485 4 x RS-232
Key Benefits	
TPM	TPM 2.0 with Intel® PTT
GPIO	8-channel in/out programmable
Mechanical and Environmental	
Dimensions	244 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95% relative humidity, non-condensing

Ordering Information

MMB566-Q670E-S (P/N: E38W566101)	Micro ATX motherboard with LGA1700 socket Intel® Core™ processor, Intel® Q670E, two 2.5GbE LAN, and DDR4
MMB566-Q670E-S5 (P/N: E38W566107)	Micro ATX motherboard with LGA1700 socket Intel® Core™ processor, Intel® Q670E, two 2.5GbE LAN, and DDR5
MMB566-H610E-S (P/N: E38W566105)	Micro ATX motherboard with LGA1700 socket Intel® Core™ processor, Intel® H610E, two 2.5GbE LAN, and DDR4 (Per project request)
MMB566-H610E-S5 (P/N: E38W566106)	Micro ATX motherboard with LGA1700 socket Intel® Core™ processor, Intel® H610E, two 2.5GbE LAN, and DDR5 (Per project request)
MMB566-R680E-S5G (P/N: E38W566108)	Micro ATX motherboard with LGA1700 socket Intel® Core™ processor, Intel® R680E, two 2.5GbE LAN, two 10GbE LAN, and DDR5 (Per project request)
Optional	
713000001400	RGD3219-50-003 2U cooler LGA1700
590000039200	COM port cable, HS, 2 x 5-pin, P=2.0 mm, L=300 mm
594K6402800E	USB 2.0 cable, 2 x stacked, P=2.54 mm, 2 x 5-pin, L=200 mm
5948C122800E	USB 3.0 cable with bracket, 20-pin, L=400 mm (RC)

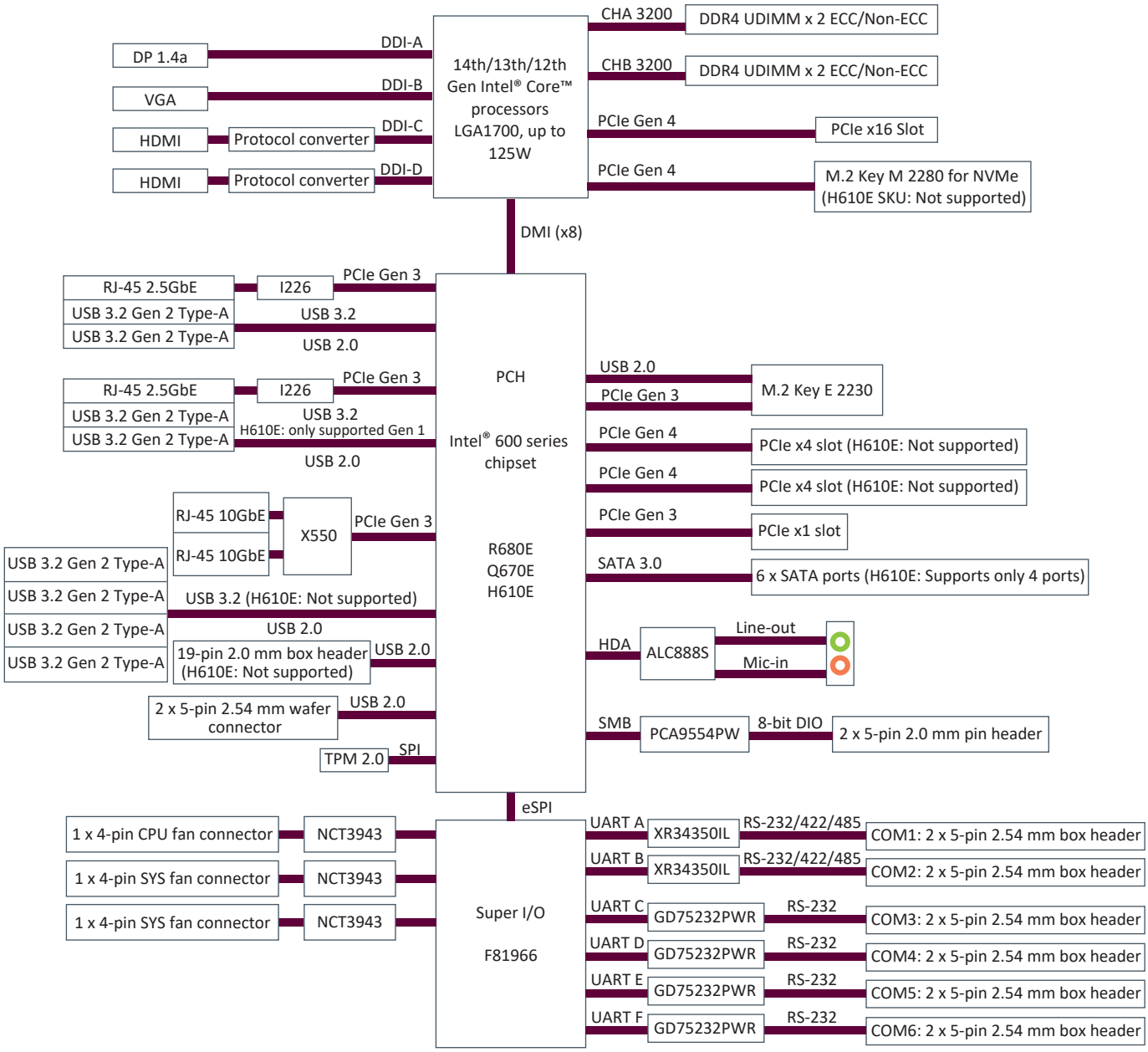
Packing List

Standard

I/O bracket

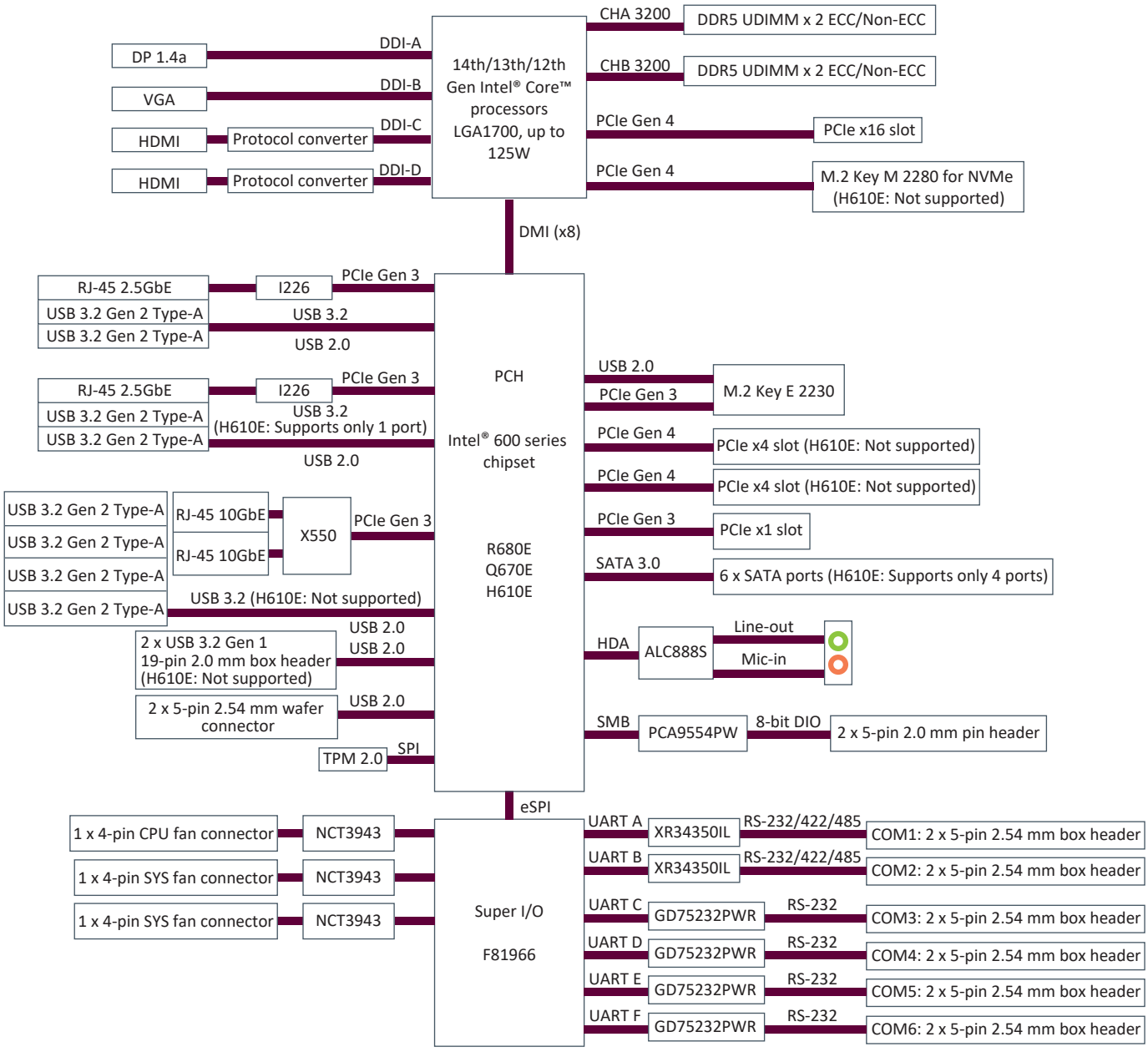
Block Diagram

MMB566-DDR4



Block Diagram

MMB566-DDR5



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