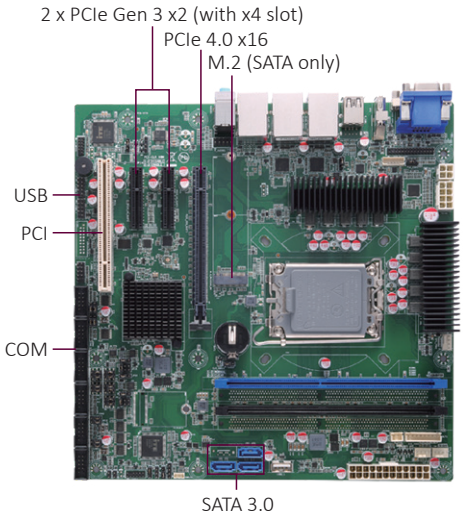
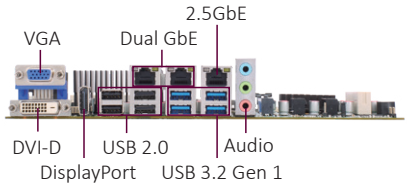
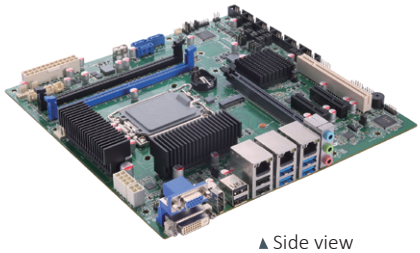
MMB541 NEW

Micro ATX Motherboard with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ Processor, Intel® H610, USB 3.2 Gen 1x1 , SATA 3.0, Dual GbE, 2.5GbE, VGA, DP, and DVI-D







▲ Side view

Triple-View | USB 3.2 Gen1 | M.2 (SATA) | Flexible Slots

Features

- LGA1700 socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor
- Dual 288-pin DDR4-3200 Long-DIMM, up to 64GB
- Supports triple-view display via DisplayPort, VGA, and DVI-D
- Supports M.2 Key M 2280/2242
- Supports USB 3.2 Gen 1 x1 and USB 2.0

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	Dual 288-pin DDR4-3200 non-ECC Long-DIMM, up to 64GB
Chipset	Intel® H610
BIOS	AMI BIOS
Storage	M.2 Key M 2280/2242, only supports SATA SSD
Watchdog Timer	255 levels, 1 to 255 sec.

Specifications

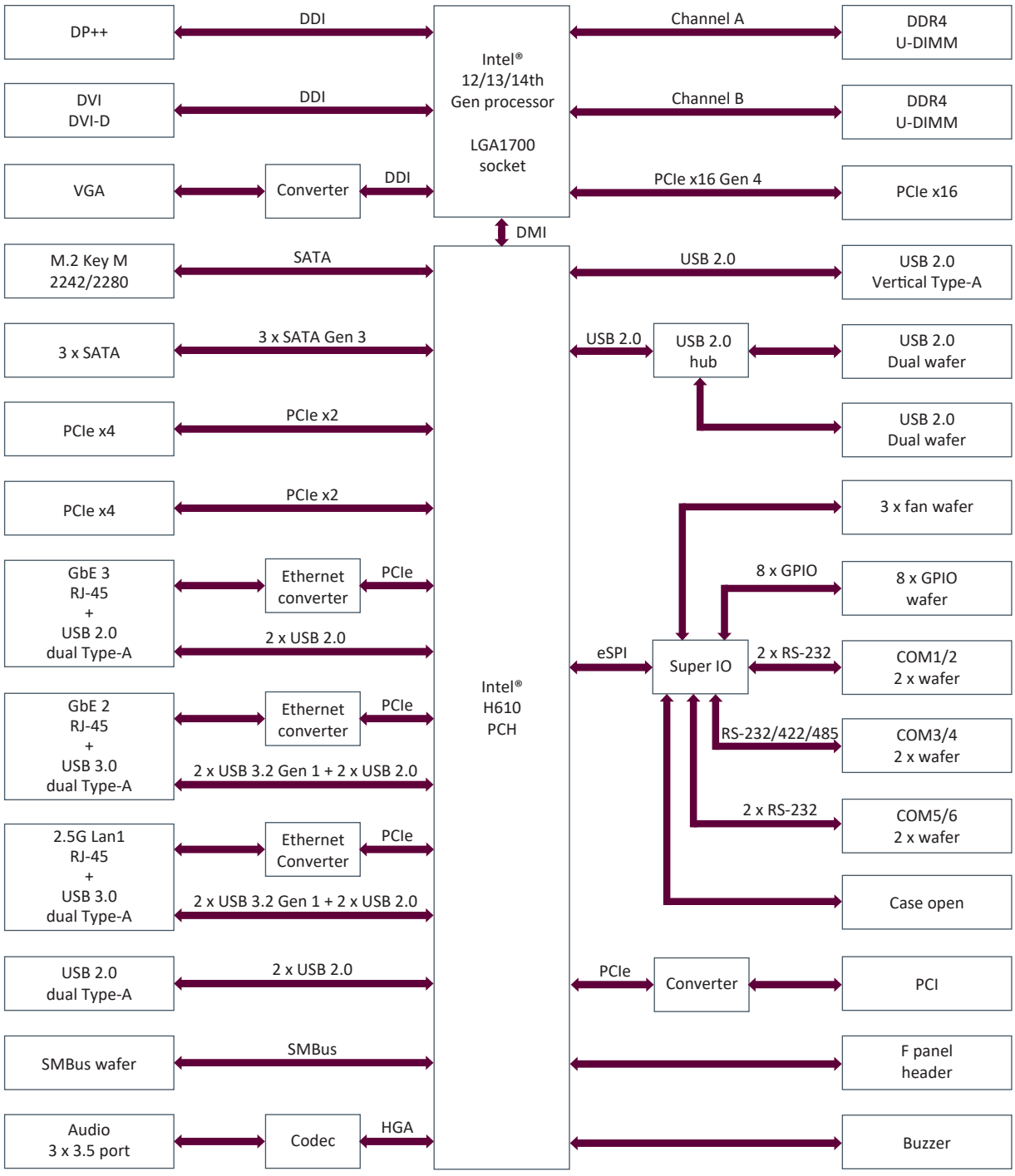
Core System	
Expansion Interface	1 x PCIe Gen 4 x16 slot 2 x PCIe Gen 3 x2 slot from PCH (open-ended x4 slots) 1 x 32-bit PCI slot (default clock: 33 MHz)
Battery Lithium	Lithium 3V/220 mAH
Power Input	24-pin + 8-pin + 4-pin ATX connector
Power Consumption	Intel® Core™ i9-14900K with 64 GB (2 x DDR4-3200 32GB) Power requirements: +12V_CPU @ 6.3A +5V @ 2.1A +3.3V @ 1.0A
Display	
Chipset	Intel® UHD Graphics
Display Interface	1 x DisplayPort, up to 4096 x 2160 @ 30Hz 1 x DVI-D, up to 1920 x 1200 @ 60Hz 1 x VGA, up to 1920 x 1200 @ 60Hz
I/O	
External	1 x 10/100/1000/2500 Mbps with Intel® I226-V, supporting Wake-on-LAN and PXE Boot ROM 2 x 10/100/1000 Mbps with Intel® I210-AT, supporting Wake-on-LAN and PXE Boot ROM HD Codec audio as Mic-in/Line-in/Line-out 4 x USB 3.2 Gen 1 x1 (Type-A, rear I/O) 4 x USB 2.0 (Type-A, rear I/O)
Internal	3 x SATA-600 without RAID 4 x RS-232 (COM1/2/5/6, box header) 1 x RS-232/RS-485/RS-422 (COM3, box header) 1 x RS-232/RS-485 (COM4, box header) 1 x USB 2.0 (vertical Type-A, internal) 4 x USB 2.0 (header, internal)
Key Benefits	
TPM	Not included by default; supports Intel® PTT as default
SMBus	Yes
Digital I/O	8-channel programmable
Hardware Monitoring	Detect CPU/system temperature, voltage and supports smart fan control
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

Standard	
MMB541-H610-SP (P/N: E38W541101)	Micro ATX motherboard with LGA1700 socket, supporting 14th/13th/12th Gen Intel® Core™ processors. Features Intel® H610 chipset, USB 3.2 Gen 1 x1, SATA 3.0, triple LAN (dual GbE + 2.5GbE), and multiple display outputs including VGA, DisplayPort, and DVI-D. Single packing.
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
594G5208000E	SATA 3.0 cable 180D with lock & B.sleeve L50 cm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
713000000500	CPU heatsink for 1U chassis
711000002500	CPU cooler for 2U, 4U, and wall mount chassis

*Please refer to the user manual for the complete CPU list.

Block Diagram



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