IMB701 NEW
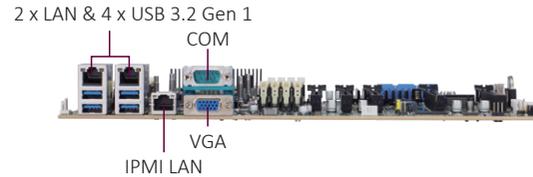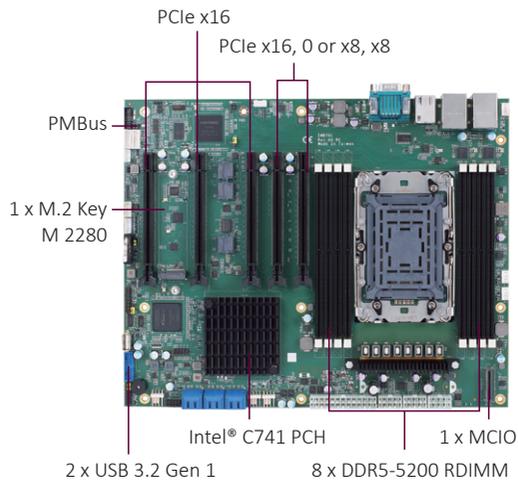
ATX Motherboard with LGA4677 Socket 5th/4th Gen Intel® Xeon® Scalable Processors, Intel® C741, 5 PCIe x16, VGA, IPMI, USB 3.2, and NVMe

PCIe x16
PCIe x16, 0 or x8, x8
PMBus
1 x M.2 Key M 2280
Intel® C741 PCH
2 x USB 3.2 Gen 1
1 x MCIO
8 x DDR5-5200 RDIMM

2 x LAN & 4 x USB 3.2 Gen 1
COM
VGA
IPMI LAN

▲ Side view

| DDR5 | PCIe x16 | PCIe 5.0 | M.2 | USB 3.2 | IPMI 2.0 |

Features

- 5th/4th Gen Intel® Xeon® Scalable processors (Platinum, Gold, Silver, and Bronze), up to 350W TDP
- 8 DDR5-5200 R-DIMM ECC, up to 512GB memory
- 5 PCIe x16
- Supports M.2 Key M and MCIO
- Supports IPMI 2.0
- Supports multiple graphic cards
- Supports internal USB dongle

Specifications

Core System

CPU	LGA4677 socket (socket E) 5th/4th Gen Intel® Xeon® Scalable processors (Platinum, Gold, Silver, and Bronze), up to 350W TDP
System Memory	8 x DDR5-5200 R-DIMM ECC, up to 512GB memory
Chipset	Intel® C741
BIOS	AMI
SSD	1 x NVMe M.2 Key M 2280 (PCIe Gen 5 x4) 1 x MCIO (PCIe Gen4 x8) for 2 x NVMe SSD
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	Slot 1 & 2: PCIe x16 (1 x Gen 5 x16 or 2 x Gen 5 x8 via jumper setting) Slots 3, 4 & 5: PCIe x16 (Gen 5 x16 link) NVMe M.2 Key M 2280 (PCIe Gen 4 x4)

Specifications

Display

Chipset	AST2600
Memory Size	N/A
Display Interface	1 x VGA

I/O

SATA	6 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® I210-AT) 1 x dedicated IPMI LAN port (Realtek RTL8211F)
Audio	HD audio interface (2 x 8-pin header)
USB	4 x USB 3.2 Gen 1 2 x internal USB 3.2 Gen 1 2 x internal USB 2.0 1 x internal USB 2.0 Type-A (for license dongle)
Serial	1 x rear I/O COM (RS-232 DB9) 1 x internal COM (RS-232)
PS/2 Combo Port	1 x PS/2 keyboard and mouse (Internal box header)
Remote Management	IPMI 2.0 supported by OpenBMC
TPM	TPM 2.0
SMBus	Yes
Digital I/O	8-channel TTL

Mechanical and Environmental

Dimensions	305 x 244 mm
Board Thickness	2.54 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F), depends on thermal solution
Storage Temperature	-20°C to +85°C (-4°F to +185°F)
Relative Humidity	10% to 95% relative humidity at +40°C, non-condensing
OS Compatibility	Windows server 2022, Linux Ubuntu 22.04

Ordering Information

Standard

IMB701-C741-SP (P/N: E38F701101)	ATX motherboard with LGA4677 socket 5th/4th Gen Intel® Xeon® Scalable processors, Intel® C741, 5 PCIe x16, VGA, IPMI, USB 3.2, and NVMe; 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
5948C122800E	2 x USB 3.2 Gen 1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
594G5208000E	SATA 3.0 signal cable, L=500 mm with locking latch
594G5208010E	SATA 3.0 signal cable, L=500 mm without locking latch
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
713000002500	LGA 4677 CPU 2U cooler (225W)
713000002600	LGA 4677 CPU 4U cooler (350W)