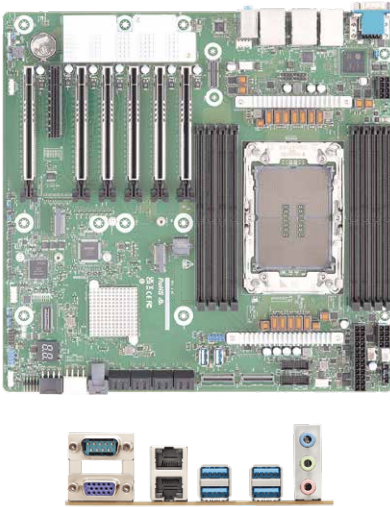


IMB-X1904

EATX Motherboard



KEY FEATURES

- Intel® Xeon® 600 Processors with W890 chipset
- 8 x 288-pin ECC RDIMM/RDIMM-3DS DDR5 6400 MHz (1DPC), 5200 MHz (2DPC), up to 2TB
- 6 x PCIe x16 (Gen5), 1 x PCIe x8 (Gen5), 4 x USB 3.2 Gen2, 6 x USB 3.2 Gen1, 3 x USB 2.0, 2 x M.2 Key M, 2 x COM, 1 x U.2, 2 x MCIO, 8 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports 1 x VGA
- TPM 2.0 onboard IC
- OOB Function (optional)
- Support Intel® vPro, RAID 0/1/5/10
- ATX PWR (8+8+24 Pin)

SPECIFICATIONS

Form Factor

Dimensions	EATX (12-in x 11.7-in x 1.6-in, 30.5 cm x 29.7 cm x 4.0 cm)
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Processor System

CPU	Intel® Xeon® 600 Processors
Chipset	Intel® W890
Socket	LGA4710
BIOS	AMI SPI 256 Mbit

Memory

Technology	Quad Channel ECC DDR5 6400 MHz (1DPC), 5200 MHz (2DPC)
Capacity	2TB
Socket	8 x 288-pin RDIMM/RDIMM-3DS

Graphics

VGA	1 x VGA from Silicon Motion SM750 Max resolution up to 1920 x 1200@60Hz
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Expansion Slot

PCIe	PCIe7: PCIe Gen5 x16 PCIe6: PCIe Gen5 x16 PCIe5: PCIe Gen5 x16 (supported with Expert SKU) PCIe4: PCIe Gen5 x16 PCIe3: PCIe Gen5 x16 (supported with Expert SKU) PCIe2: PCIe Gen5 x8 PCIe1: PCIe Gen5 x16
MCIO	2 x MCIO with PCIe Gen4 x8 (supported with Expert SKU)

Audio

Interface	Realtek ALC897, High Definition Audio. Line-in, Line-out, Mic-in
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Ethernet

Controller/ Speed	LAN1: Intel® I210AT with 10/100/1000 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps, supports vPro
Connector	2 x RJ-45

Rear I/O

VGA	1
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.2 Gen2
Audio	3 (Line-In/Line-Out/Mic-In)
COM	COM1 (RS-232)

Internal Connector

USB	2 x USB 3.2 Gen1 (vertical con) 4 x USB 3.2 Gen1 (2 x USB 3.2 header) 3 x USB 2.0 (2 x 2.54 pitch header)
COM	COM2 (RS-232)
GPIO	4 x DI + 4 x DO
OOB Header	1 *Recommend using AI-M2-OOB module to support OOB function
Others	2 x TGPIO (2 x 1-pin header)

Storage

M.2	1 x M.2 (Key M, 2242/2280/3052/25110) with PCIe Gen5 x4 for SSD 1 x M.2 (Key M, 2242/2280) with PCIe Gen4 x4 for SSD
U.2	1 x U.2 with PCIe Gen4 x4
SATA	8 x SATA3
RAID	Intel® SATA RAID 0/1/5/10

Security

TPM	TPM2.0 onboard IC
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Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	1 x 24-pin ATX PWR connector 2 x 8-pin 12V PWR connector 1 x 8-pin and 1 x (6+2)-pin 12V PWR connector for PCIe
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	-20°C ~ 70°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90% (non-condensing)
Storage Humidity	5% ~ 90% (non-condensing)