

IMB-X1901

ATX Motherboard

Coming Soon

KEY FEATURES

- Intel® Xeon® 6700E-series processors
- 8 x 288-pin ECC RDIMM/RDIMM-3DS DDR5 6400 MHz, up to 2TB
- 6 x PCIe x16 (Gen5), 1 x PCIe x8 (Gen5), 6 x USB 3.2 Gen1, 4 x USB 2.0, 1 x M.2 Key E, 2 x M.2 Key M, 6 x COM, 2 x Mini-SAS, 4 x SATA3
- 4 x Intel 1 Gigabit LAN, 1 x Marvell 10 Gigabit LAN (optional)
- TPM 2.0 onboard IC
- Supports Intel® VMD RAID 0/1/10
- ATX PWR (8+8+24 Pin)

SPECIFICATIONS

Form Factor

Dimensions	ATX (12-in x 9.6-in x 1.4-in, 30.5 cm x 24.4 cm x 3.6 cm)
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Processor System

CPU	Intel® Xeon® 6700E-series processors
Socket	LGA4710
BIOS	AMI SPI 512 Mbit

Memory

Technology	Eight Channel ECC DDR5 6400 MHz
Capacity	2TB
Socket	8 x 288-pin RDIMM/RDIMM-3DS

Expansion Slot

PCIe	7 x PCIe x16 Gen5 slot (PCIe3 supports x8 mode) *PCIe slot 2, 4, 6 supported by selected processors
M.2	1 x M.2 (Key E, 2230) with PCIe Gen3 x1, USB 2.0 for Wireless
SIM Socket	N/A

Ethernet

Controller/ Speed	LAN1: Intel® I210 with 10/100/1000 Mbps LAN2: Intel® I210 with 10/100/1000 Mbps LAN3: Intel® I210 with 10/100/1000 Mbps LAN4: Intel® I210 with 10/100/1000 Mbps LAN5: Marvell AQc113 with 10/100/1000/2500/5000/10000 Mbps (optional)
Connector	5 x RJ-45

Rear I/O

Ethernet	4 x 1 Gigabit LAN 1 x 10 Gigabit LAN (optional)
USB	4 x USB 3.2 Gen1
Serial Port	2 x COM (RS-232) 2 x COM (RS-232/422/485)

Internal Connector

USB	2 x USB 3.2 Gen1 (1 x USB 3.2 header) 4 x USB 2.0 (2 x 2.54 pitch header)
COM	2 x COM (RS-232)
GPIO	4 x GPI, 4 x GPO

Storage

M.2	1 x M.2 (Key M, 2242/2280/25110) with PCIe Gen4 x4 for SSD 1 x M.2 (Key M, 2242/2280) with PCIe Gen4 x4 for SSD
Mini-SAS	2 x Mini-SAS with PCIe Gen4 x4
SATA	4 x SATA3
RAID	Intel® VMD RAID 0/1/10 ***supported by identical interface (PCIe or SATA) PCIe interface: M.2 Key M SATA interface: SATA port

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	ATX PWR (24+8+8-pin) 2 x 8-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%
Storage Humidity	5% ~ 90%

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