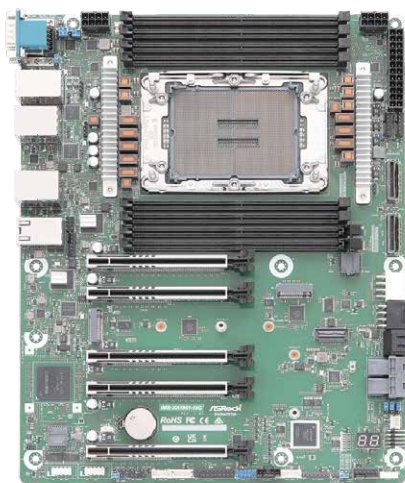


IMB-XA1901-10G

ATX Motherboard



KEY FEATURES

- Intel® Xeon® 6700P/6500P/6700E Series processors
- 8 x 288-pin ECC RDIMM/RDIMM-3DS DDR5 6400 MHz, up to 1TB
- 2 x PCIe x16 (Gen5), 3 x PCIe x8 (Gen5), 2 x MCIO, 2 x USB 3.2 Gen1, 4 x USB 2.0, 2 x M.2 Key M, 2 x COM, 2 x U.2, 2 x SATA3
- 2 x Intel 1 Gigabit LAN, 2 x Marvell 10 Gigabit LAN
- Supports 1 x VGA
- Remote management (IPMI)
- TPM 2.0 onboard IC
- Supports RAID 0/1
- 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® 6700P/6500P/6700E Series processors
Socket	LGA4710
BIOS	AMI SPI 512 Mbit

Memory

Technology	Eight Channel ECC DDR5 6400 MHz
Capacity	1TB
Socket	8 x 288-pin RDIMM/RDIMM-3DS

Graphics

VGA	1 x VGA from ASPEED AST2600 Max resolution up to 1920x1200@60Hz
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Expansion Slot

PCIe	PCIe5: PCIe Gen5 x16 PCIe4: PCIe Gen5 x8 PCIe3: PCIe Gen5 x8 PCIe2: PCIe Gen5 x16 PCIe1: PCIe Gen5 x8
MCIO	2 x MCIO with PCIe Gen5 x8 (supported with R1S CPU)

Ethernet

Controller/ Speed	LAN1: Intel® I210AT with 10/100/1000 Mbps LAN2: Intel® I210AT with 10/100/1000 Mbps LAN3: MarvellAQc113 with 10/100/1000/2500/5000/10000 Mbps LAN4: MarvellAQc113 with 10/100/1000/2500/5000/10000 Mbps
Connector	4 x RJ-45

Management

BMC Controller	ASPEED AST2600
IPMI	1 x Realtek RTL8211 for dedicated management GLAN

Rear I/O

VGA	1
Ethernet	2 x 10 Gigabit LAN 2 x 1 Gigabit LAN 1 x Dedicated IPMI
USB	2 x USB 3.2 Gen1 2 x USB 2.0
COM	COM1 (RS-232/422/485)

Internal Connector

USB	2 x USB 2.0 (1 x 2.54 pitch header)
COM	COM2 (RS-232)

Storage

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

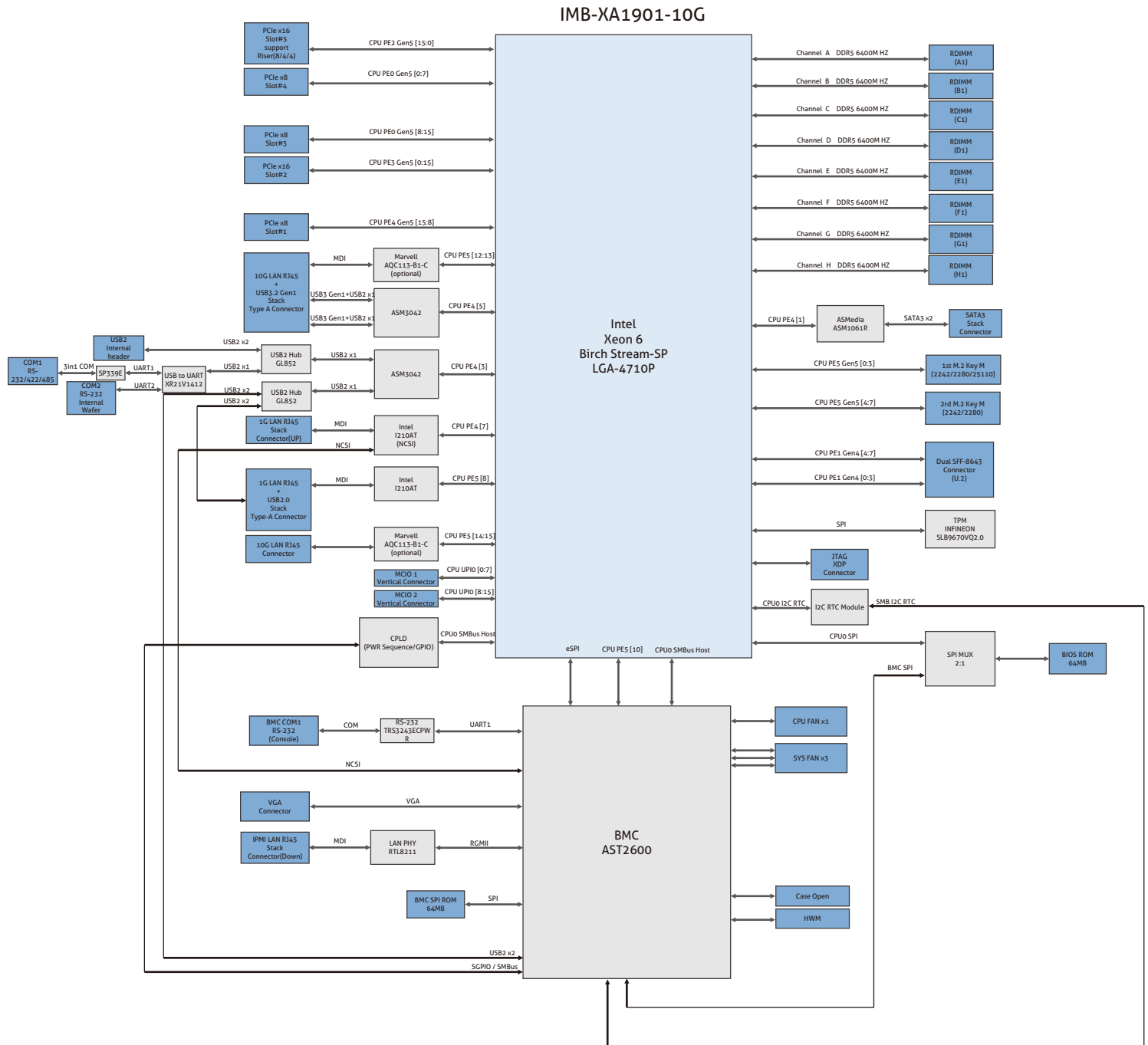
Power Requirements

Input PWR	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%
Storage Humidity	5% ~ 90%

BLOCK DIAGRAM



ORDERING INFORMATION

Ordering Information

Model	IMB-XA1901	IMB-XA1901-10G
VGA	1	1
1 Gbe LAN	2	2
10 Gbe LAN	0	2
COM	2	2
USB 3.2	2	2
USB 2.0	4	4
SATA III	2	2
M.2 M-Key	2	2
TPM	1	1

Packing List (Gift)

Description	Quantity
COM Cable	1
SATA Data Cable	2
LGA4710 E2A Carrier	1
LGA4710 E2B Carrier	1
I/O Shield	1
SCREW M3*2.5	2

Packing List (Bulk)

Description	Quantity
LGA4710 E2A Carrier	1
LGA4710 E2B Carrier	1
I/O Shield	1
SCREW M3*2.5	2

I/O View

IMB-XA1901



IMB-XA1901-10G

