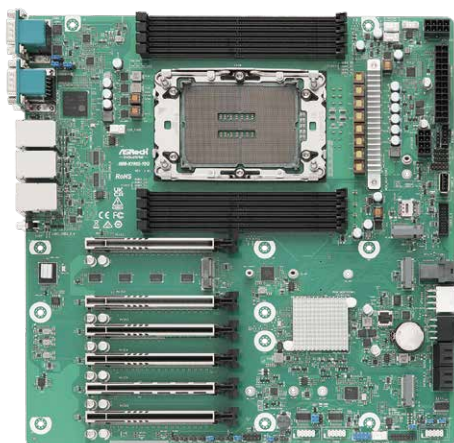


IMB-X1902-10G

EATX Motherboard



KEY FEATURES

- Intel® Xeon® W-3500/3400 and W-2500/2400 Series Processors with W790 chipset
- 8 x 288-pin ECC RDIMM/RDIMM-3DS DDR5 4400/4800 MHz, up to 2TB
- 4 x PCIe x16 (Gen5), 1 x PCIe x8 (Gen5), 1 x PCIe x4 (Gen4), 1 x USB 3.2 Gen2x2, 5 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 3 x USB 2.0, 1 x M.2 Key E, 2 x M.2 Key M, 1 x M.2 Key B, 6 x COM, 1 x U.2, 4 x SATA3
- 2 x Intel 2.5 Gigabit LAN, 1 x Marvell 10 Gigabit LAN
- Supports 1 x VGA
- TPM 2.0 onboard IC
- Support Intel® vPro, VMD 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® W-3500/3400 and W-2500/2400 Series Processors
Chipset	Intel® W790
Socket	LGA4677
BIOS	AMI SPI 256 Mbit

Memory

Technology	Quad Channel ECC DDR5 4400/4800 MHz* *1DPC 4800 MHz Natively for Xeon® W9, Xeon® W7 and Xeon® W5 2DPC 4400 MHz Natively for Xeon® W9, Xeon® W7 and Xeon® W5 Supports 4400 MHz Natively for Xeon® W3, W5-3423 and W5-3433
Capacity	2TB
Socket	8 x 288-pin RDIMM/RDIMM-3DS

Graphics

VGA	Max resolution up to 1920x1200@60Hz
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Expansion Slot

PCIe	PCIe1: PCIe Gen5 x16 PCIe2: PCIe Gen5 x16 PCIe3/PCIe4: single at Gen5 x16 (PCIe4); dual at Gen5 x8 (PCIe3) / x8 (PCIe4) PCIe5: PCIe Gen4 x4 PCIe6: PCIe Gen5 x16
M.2	1 x M.2 (Key E, 2230) with PCIe Gen3 x1, USB 2.0 and CNVi for Wireless 1 x M.2 (Key B, 3042/3052) with PCIe Gen3 x1, USB 3.2 Gen1, USB 2.0 and SIM for 4G/5G
SIM Socket	1 x SIM socket connected to M.2 key B

Ethernet

Controller/ Speed	LAN1: Intel® I226LM with 10/100/1000/2500 Mbps, supports vPro LAN2: Intel® I226V with 10/100/1000/2500 Mbps LAN3: Marvell AQC113 with 10/100/1000/2500/5000/10000 Mbps
Connector	3 x RJ-45

Rear I/O

VGA	1
Ethernet	1 x 10 Gigabit LAN 2 x 2.5 Gigabit LAN
USB	5 x USB 3.2 Gen2 1 x USB 3.2 Gen2x2 (Type-C, 5V/3A)
Serial Port	COM3 (RS-232) COM1, COM2 (RS-232/422/485)
UID	1 x UID button with LED

Internal Connector

USB	2 x USB 3.2 Gen1 (1 x USB 3.2 header) 2 x USB 2.0 (1 x 2.54 pitch header) 1 x USB 2.0 (vertical con)
COM	COM4, COM5, COM6 (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 and SATA3 for SSD 1 x M.2 (Key M, 2260/2280/25110) with PCIe Gen4 x4 for SSD
U.2	1 x U.2 with PCIe Gen4 x4
SATA	4 x SATA3, SATA3_4 shared with M.2 Key M1
RAID	Intel® VMD RAID 0/1/5/10 ***supported by identical interface (PCIe or SATA) PCIe interface: M.2 Key B + M.2 Key M1/2 or 2* M.2 Key M SATA interface: SATA port

Security

TPM	TPM 2.0 onboard IC
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Watchdog Timer

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

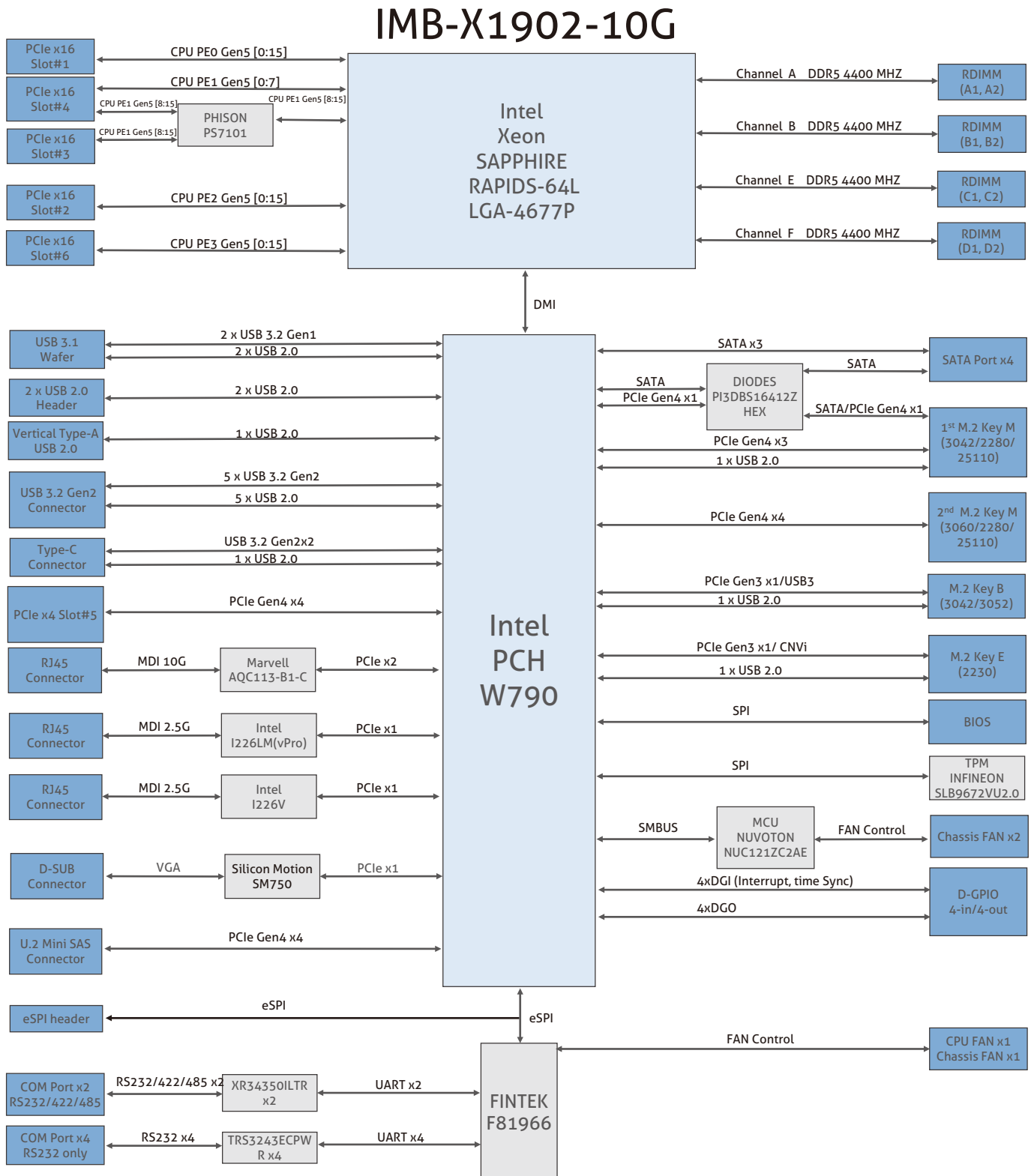
Power Requirements

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



IMB-X1902-10G

EATX Motherboard

ORDERING INFORMATION

Ordering Information

Model	IMB-X1902	IMB-X1902-10G
CPU/Chipset	W790	W790
VGA	1	1
2.5 Gbe LAN	2	2
10Gbe LAN	0	1
COM	6	6
USB Type C	1	1
USB 3.2	7	7
USB 2.0	3	3
SATA III	4	4
M.2 E-Key	1	1
M.2 B-Key	1	1
M.2 M-Key	2	2
TPM	1	1

Packing List (Gift)

Description	Quantity
SATA Data Cable	2
LGA4677 E1A Carrier	1
LGA4677 E1B Carrier	1
I/O Shield	1
SCREW M3*2.5	4

Packing List (Bulk)

Description	Quantity
LGA4677 E1A Carrier	1
LGA4677 E1B Carrier	1
I/O Shield	1
SCREW M3*2.5	4

I/O View

