

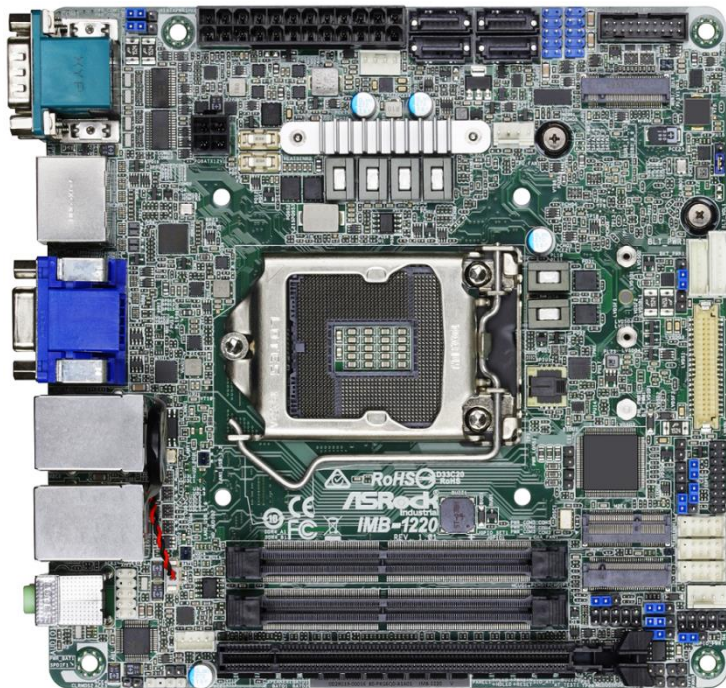


IMB-1220

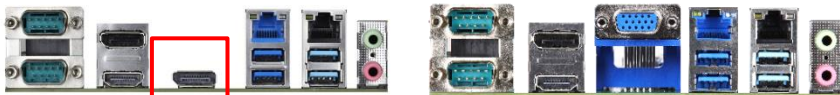


IMB-1222

10th GEN INTEL® CORE™ PROCESSORS FULL RANGE OF INDUSTRIAL MOTHERBOARDS

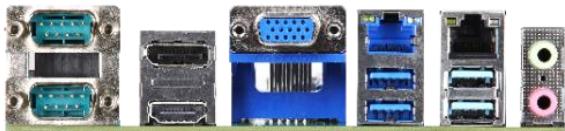
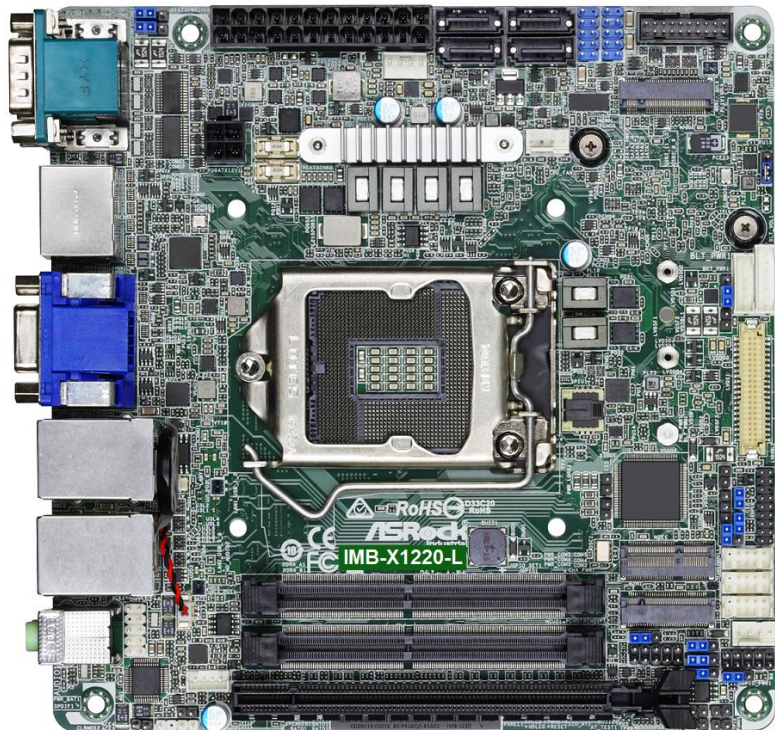


CPU	Support Intel® 10th Gen Comet Lake-S Core™ Processors, to 80W
Chipset	Q470E
Memory	2*SO-DIMM DDR4-2933, Up to 64GB
Expansion Slots	1*PCIe 3.0 x16 (Support riser card x8/x8, x8/x4/x4) 1* SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	1*M.2 Key M, 4*SATA3
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 4*USB 3.2 Gen1 Internal: 2*USB 3.2 Gen1, 4*USB 2.0
Graphics Outputs	Support Triple display IMB-1220-L: LVDS, DP1.2, VGA, HDMI 2.0a IMB-1220-D: 2*DP1.2, eDP, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 3*COM(RS232)
TPM	TPM2.0 Onboard
Input Power	ATX PWR 4+24 Pin (*BOM Option: ATX/DC-in co-lay)

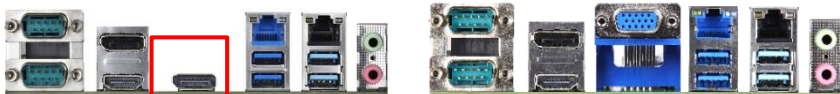
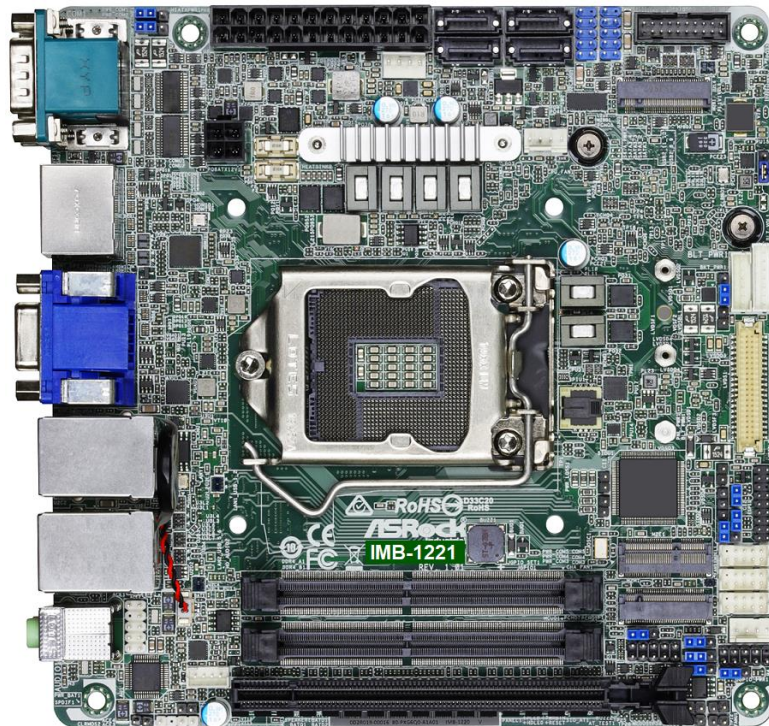


IMB-1220-D

IMB-1220-L



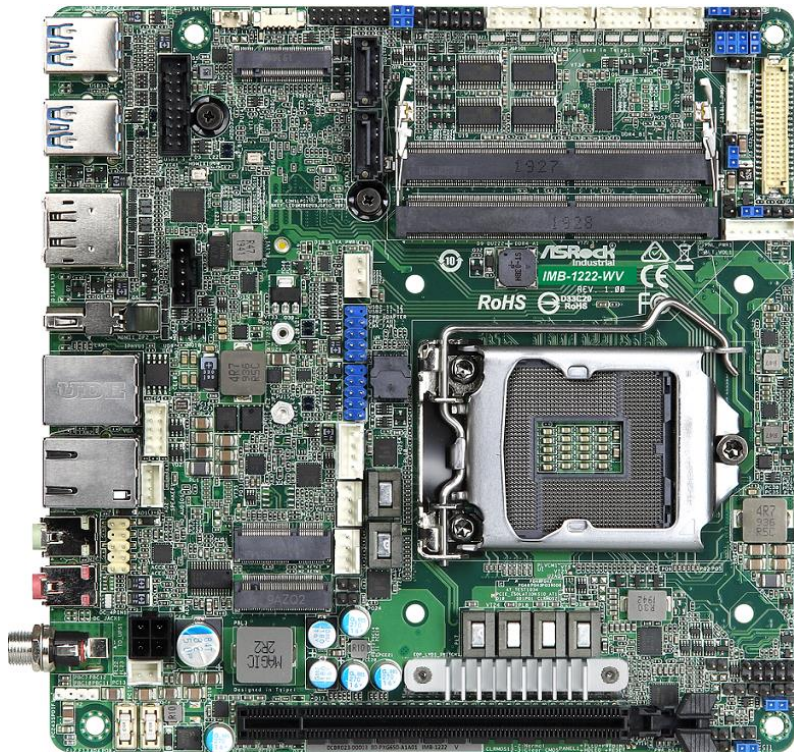
CPU	Support Intel® Xeon® W-1200 series and 10th Gen Comet Lake-S Core™ Processors, up to 80W
Chipset	W480E
Memory	2*SO-DIMM DDR4-2933, Up to 64GB (ECC memory supported by CPU)
Expansion Slots	1*PCIe 3.0 x16 (Support riser card x8/x8, x8/x4/x4) 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	1*M.2 Key M, 4*SATA3
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 4*USB 3.2 Gen1 Internal: 2*USB 3.2 Gen1, 4*USB 2.0
Graphics Outputs	Support Triple display LVDS, DP1.2, VGA, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 3*COM(RS232)
TPM	TPM2.0 Onboard
Input Power	ATX PWR 4+24 Pin (*BOM Option: ATX/DC-in co-lay)



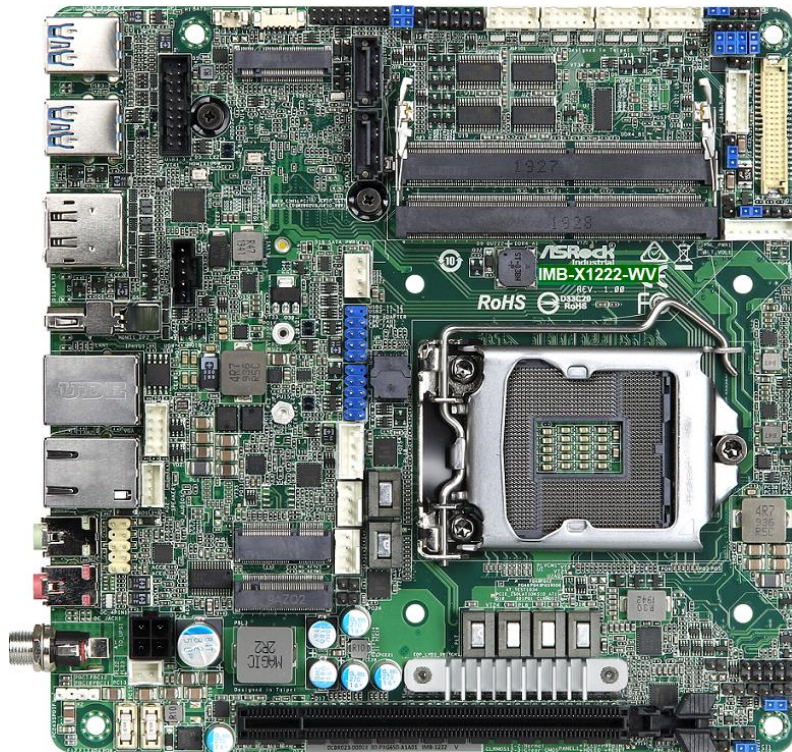
IMB-1221-D

IMB-1221-L

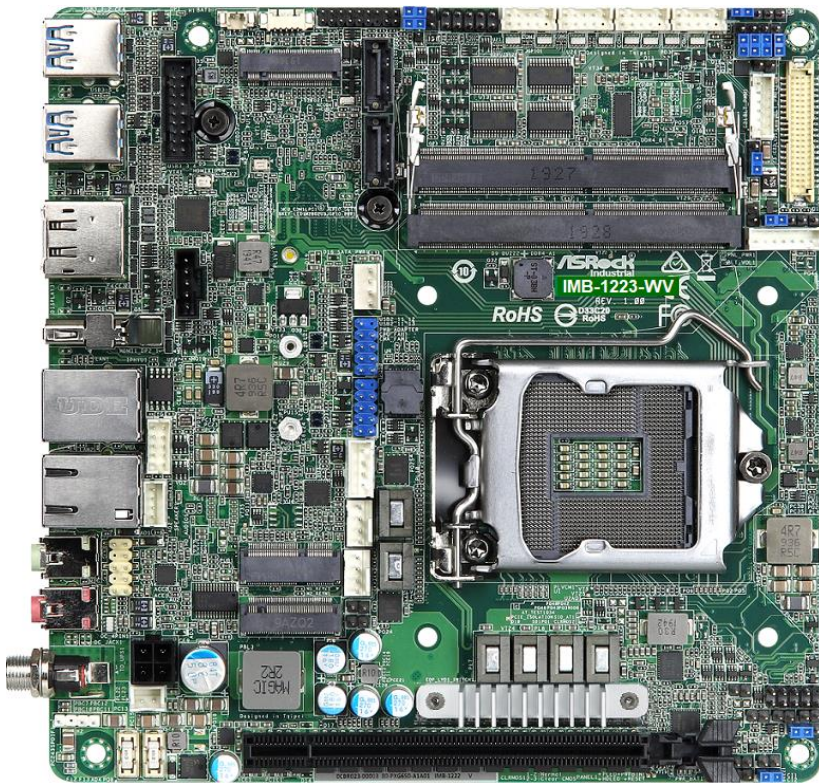
CPU	Support Intel® 10th Gen Comet Lake-S Core™ Processors, up to 80W
Chipset	H420E
Memory	2*SO-DIMM DDR4-2933, Up to 64GB
Expansion Slots	1*PCIe 3.0 x16, 1*SIM socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	1*M.2 Key M, 4*SATA3
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 2*USB3.2 Gen1 + 2*USB2.0 Internal: 2*USB 3.2 Gen1 + 2*USB 2.0
Graphics Outputs	Support Dual display IMB-1221-L : LVDS, DP1.2, VGA, HDMI 2.0a IMB-1221-D : eDP, 2*DP1.2, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 2*COM(RS232)
Input Power	ATX PWR 4+24 Pin (*BOM Option: ATX/DC-in co-lay)



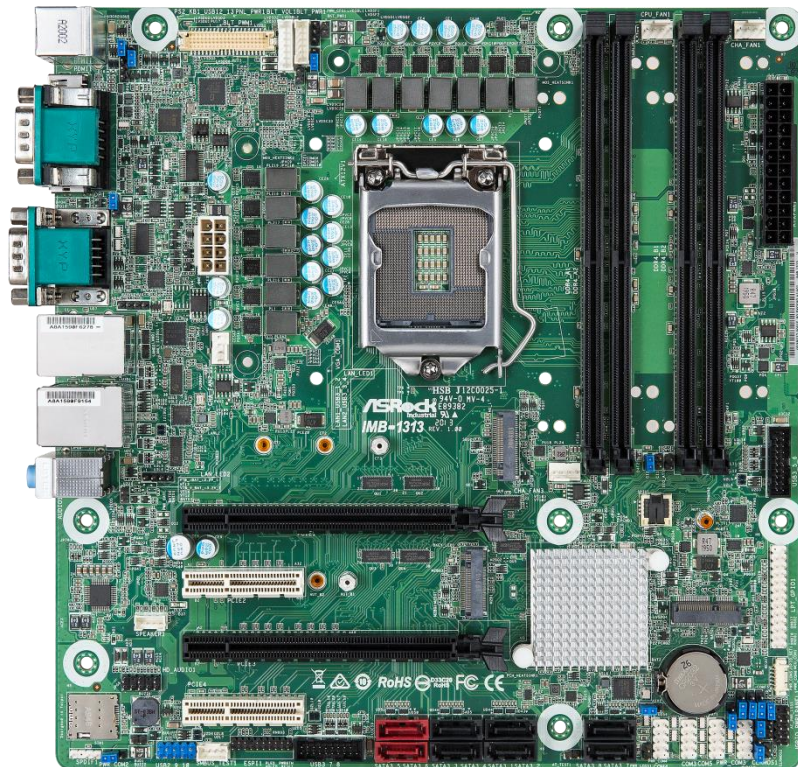
CPU	Support Intel® 10th Gen Comet Lake-S Core™ Processors, up to 80W
Chipset	Q470E
Memory	2*SO-DIMM DDR4-2933, Up to 64GB
Expansion Slots	1*PCIe 3.0 x16 (Support riser card x8/x8, x8/x4/x4) IMB-1222-WV: 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	1*M.2 Key M, 2*SATA3
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 4*USB3.2 Gen1 Internal: 2*USB3.2 Gen1 + 4*USB2.0
Graphics Outputs	Support Triple display 2*DP1.2, LVDS or eDP, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 2*COM(RS232)
TPM	TPM2.0 Onboard
Other	1*Thunderbolt header
Input Power	IMB-1222: 12V DC-in IMB-1222-WV: 12V~28V wide range DC-in



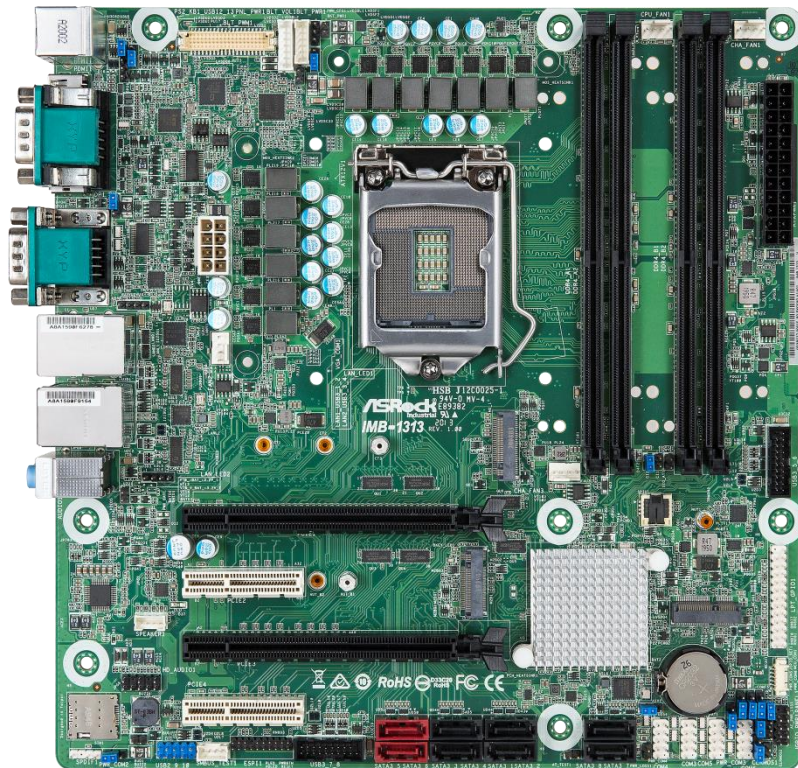
CPU	Support Intel® Xeon® W-1200 series and 10th Gen Comet Lake-S Core™ Processors, up to 80W
Chipset	W480E
Memory	2*SO-DIMM DDR4-2933, Up to 64GB (ECC memory supported by CPU)
Expansion Slots	1*PCIe 3.0 x16 (Support riser card x8/x8, x8/x4/x4) 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	1*M.2 Key M, 2*SATA3
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 4*USB3.2 Gen1 Internal: 2*USB3.2 Gen1 + 4*USB2.0
Graphics Outputs	Support Triple display 2*DP1.2, LVDS or eDP, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 2*COM(RS232)
TPM	TPM2.0 Onboard
Other	1*Thunderbolt header
Input Power	12V~28V wide range DC-in



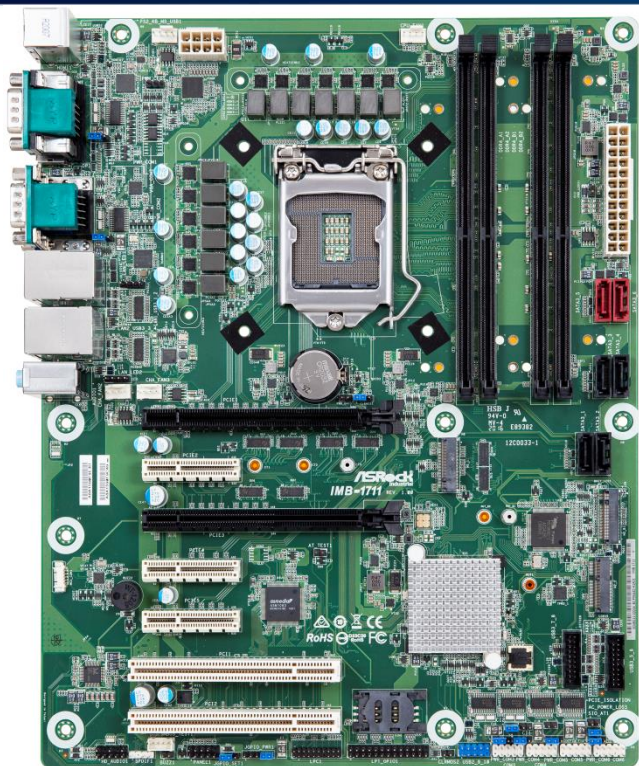
CPU	Support Intel® 10th Gen Comet Lake-S Core™ Processors, up to 80W
Chipset	H420E
Memory	2*SO-DIMM DDR4-2933, Up to 64GB
Expansion Slots	IMB-1223: 1*PCIe 3.0 x16 IMB-1223WV: 1*PCIe 3.0 x16, 1*SIM socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	1*M.2 Key M, 2*SATA3
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 2*USB3.2 Gen1 + 2*USB2.0 Internal: 2*USB 3.2 Gen1 + 2*USB 2.0
Graphics Outputs	Support Dual display LVDS or eDP, DP1.2, HDMI 2.0a, VGA(header)
COM	2*COM(RS-232/422/485) + 2*COM(RS232)
Other	1*Thunderbolt header + 1*TPM header
Input Power	IMB-1223: 12V DC-in IMB-1223-WV: 12V~28V wide range DC-in



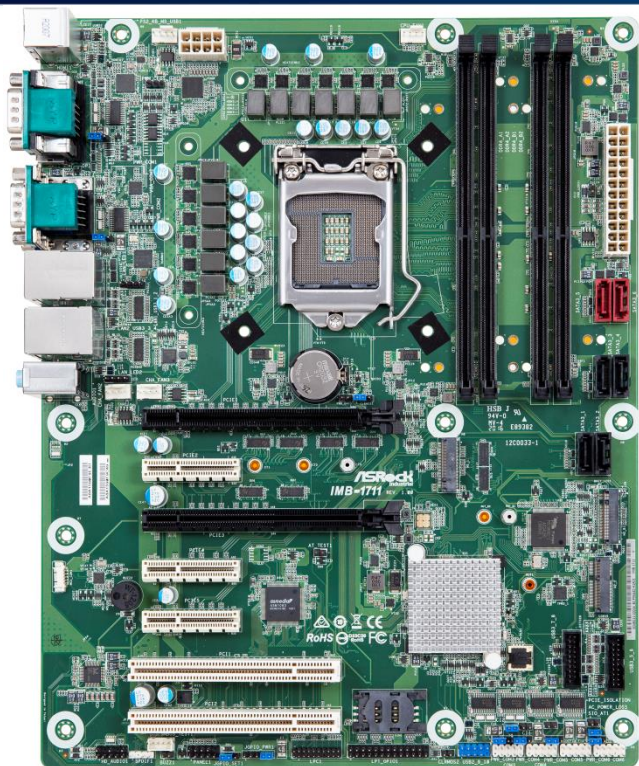
CPU	Support Intel® 10th Gen Comet Lake-S Core™ Processors, Up to 125W
Chipset	Q470E
Memory	4*Long-DIMM DDR4-2933, Up to 128GB
Expansion Slots	1*PCIe 3.0 x16 (Support riser card x8/x8, x8/x4/x4) 1*PCIe 3.0 x8, 2*PCIe 3.0 x4, 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	8*SATA3, 1*M.2 Key M (Shared with SATA3_5/6)
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 4*USB 3.2 Gen2 + 2*USB2.0 Internal: 4*USB 3.2 Gen1 + 2*USB 2.0
Graphics Outputs	Support Triple display DP1.2, VGA, LVDS or eDP, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 4*COM(RS232)
TPM	TPM2.0 Onboard
Input Power	ATX-PWR (24+8-pin)



CPU	Support Intel® Xeon® W-1200 series and 10th Gen Comet Lake-S Core™ Processors, Up to 125W
Chipset	W480E
Memory	4*Long-DIMM DDR4-2933, Up to 128GB (ECC memory supported by CPU)
Expansion Slots	1*PCIe 3.0 x16 (Support riser card x8/x8, x8/x4/x4) 1*PCIe 3.0 x8, 2*PCIe 3.0 x4, 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	8*SATA3, 1*M.2 Key M (Shared with SATA3_5/6)
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
USB	Rear: 4*USB 3.2 Gen2 + 2*USB2.0 Internal: 4*USB 3.2 Gen1 + 2*USB 2.0
Graphics Outputs	Support Triple display DP1.2, VGA, LVDS or eDP, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 4*COM(RS232)
TPM	TPM2.0 Onboard
Input Power	ATX-PWR (24+8-pin)



CPU	Support Intel® 10th Gen Comet Lake-S Core™ Processors, Up to 125W
Chipset	Q470E
Memory	4*Long-DIMM DDR4-2933, Up to 128GB
Expansion Slots	1*PCIe 3.0 x16, 1*PCIe 3.0 x8, 3*PCIe 3.0 x4, 2*PCI 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	6*SATA3, 1*M.2 Key M (Shared with SATA3_5/6)
USB	Rear: 4*USB 3.2 Gen2, 2*USB2.0 Internal: 4*USB 3.2 Gen1, 2*USB2.0
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
Graphics Outputs	Support Triple display DP1.2, VGA, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 4*COM(RS232)
TPM	TPM2.0 Onboard
Input Power	ATX-PWR (24+8-pin)



CPU	Support Intel® Xeon® W-1200 series and 10th Gen Comet Lake-S Core™ Processors, Up to 125W
Chipset	W480E
Memory	4*Long-DIMM DDR4-2933, Up to 128GB (ECC memory supported by CPU)
Expansion Slots	1*PCIe 3.0 x16, 1*PCIe 3.0 x8, 3*PCIe 3.0 x4, 2*PCI 1*SIM Socket
M.2	1*M.2 Key E, 1*M.2 Key B
Storage	6*SATA3, 1*M.2 Key M (Shared with SATA3_5/6)
USB	Rear: 4*USB 3.2 Gen2, 2*USB2.0 Internal: 4*USB 3.2 Gen1, 2*USB2.0
LAN	1*Intel 2.5G LAN + 1*Intel 1G LAN
Graphics Outputs	Support Triple display DP1.2, VGA, HDMI 2.0a
COM	2*COM(RS-232/422/485) + 4*COM(RS232)
TPM	TPM2.0 Onboard
Input Power	ATX-PWR (24+8-pin)



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