

Intel® Xeon® 6300, Xeon® E-2400, & Xeon® E-2300 Processors

Essential performance, Business-ready

Server Motherboards
General Purpose/ GPU/ Multi-node Barebones



Server Platform Naming Rule

EC266D4U-2L2T

Character	Representation	Options
N	Chipset	<ul style="list-style-type: none"> • C266 = Intel C266 chipset • C262 = Intel C262 chipset • C256 = Intel C256 chipset • C252 = Intel C252 chipset • Z690 = Intel Z690 chipset • W680 = Intel W680 chipset
N+1	Number of CPU Supported	<ul style="list-style-type: none"> • NA = Single
Others	Number of DIMM Supported	<ul style="list-style-type: none"> • D4 = 4 DIMMs • D2 = 2 DIMMs
	Form Factor	<ul style="list-style-type: none"> • NA = ATX • U = Micro-ATX • ID = Deep mini-TIX (6.7" x 8.2") • I = mini-ITX
	Feature	<ul style="list-style-type: none"> • 2Q = Dual 25GbE SFP28 by Intel E810-XXVAM2 • 2T = Dual 10GbE RJ45 by Intel X710 or Intel X550 • 2T/X550 = Dual 10GbE RJ45 by Intel X550 • 2T/BCM = Dual 10GbE RJ45 by Broadcom BCM57416 • 2T/AQC = Dual 10GbE RJ45 by Marvell AQC113 • 4L = Quad 1GbE RJ45 by Intel i210 • 2L = Dual 1GbE RJ45 by Intel i210

1U4LW-C262/2L2T

Character	Representation	Options
1st ~ 2nd	System Height	<ul style="list-style-type: none"> • 1U = 1U chassis • 4U = 4U chassis
Others	Drive Bay	<ul style="list-style-type: none"> • LW = 3.5" SATA Drive Bay • E = NVMe Drive Bay
	Feature	<ul style="list-style-type: none"> • G = Dual-slot cards supported • N = Number of nodes

Content

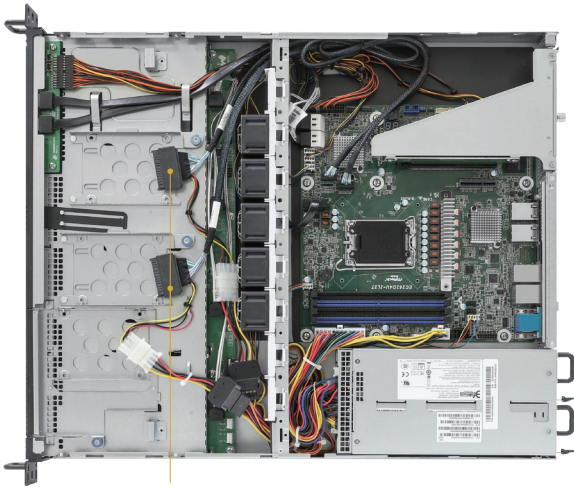
BAREBONE		
General Purpose	1U4LW-C262/2L2T RPSU, 1U4LW-C262/2L2T	B-01
	1U4LW-C252	B-02
	1U2S-C262/FIO	B-03
	1U2E-C252	B-04
GPU	1U1G-C256/2L2T	B-05
	1U1G-W680/2L2T	B-06
Multi-nodes	1U2N2G-C252/2T	B-07
	4U18N-C266/2T, 4U18N-C252/2T, 4U18N-C252	B-08

SERVER MOTHERBOARD		
Server Motherboard	EC266D4U-2L2T, EC262D4U-2L2T	M-01
	EC266D4U2-2L2Q/E810, EC262D4U2-2L2Q/E810	M-02
	EC266D4ID-2T/X550, EC262D4ID-2T/X550	M-03
	EC266D2I-2T/AQC, EC266D2I EC262D2I-2T/AQC, EC262D2I	M-04
	EC266D4-4L, EC262D4-4L	M-05
	E3C256D4U-2L2T/BCM, E3C256D4U-2L2T, E3C252D4U-2T, E3C252D4U	M-06
	E3C256D4ID-2T, E3C252D4ID-2T, E3C256D4ID2	M-07
	E3C256D2I E3C256D4I-2T	M-08
	Z690D4U-2L2T/G5, W680D4U-2L2T/G5	M-09
	Z690D4U-2L2T, Z690D4U, W680D4U-2L2T, W680D4U	M-10
	Z690D4ID-2T/G5/X550, W680D4ID-2T/G5/X550	M-11

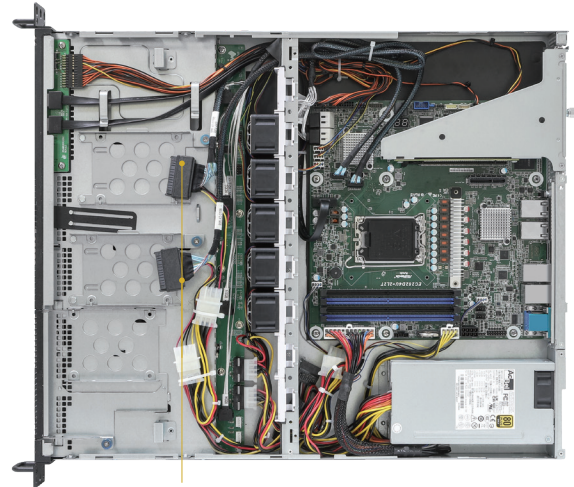
1U4LW-C262/2L2T RPSU

1U4LW-C262/2L2T

General Purpose Server for Small and Medium-sized Business Powered by Intel® Xeon® E-2400



2 fixed 2.5" NVMe (PCIe4.0 x4) drive bay



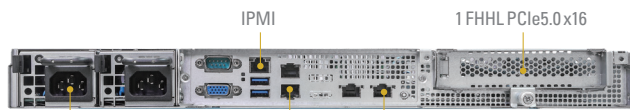
2 fixed 2.5" NVMe (PCIe4.0 x4) drive bay



4 Hot-swap 3.5" SATA drive bays



4 Hot-swap 3.5" SATA drive bays



1+1 RPSU (450W) 2 RJ45 (1GbE) 2 RJ45 (10GbE) IPMI 1 FHHL PCIe5.0 x16

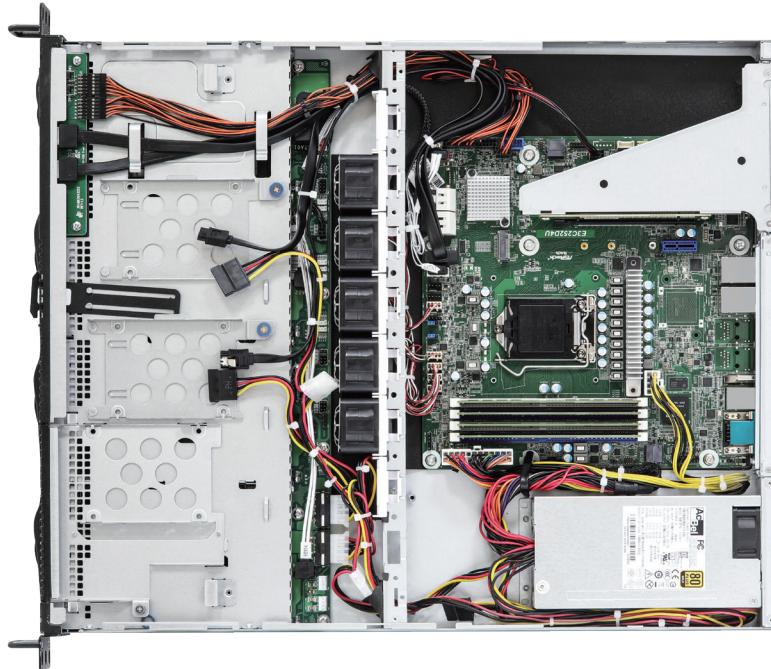


1 PSU (400W) 2 RJ45 (1GbE) 2 RJ45 (10GbE) IPMI 1 FHHL PCIe5.0 x16

		1U4LW-C262/2L2T RPSU	1U4LW-C262/2L2T
CPU	Socket	1 socket LGA 1700; Supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors	
DIMM	Slot	4 DDR5 288-pin (2DPC)	
System Physical Status	Form Factor	1U Rackmount	
	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")	
Front Panel	Buttons	Power Switch, ID Switch, System reset, NMI	
	LEDs	Power status, HDD, LANs, System Fail activity LEDs	
	I/O	2 Type-A (USB3.2 Gen1)	
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	
	USB	2 Type-A (USB3.2 Gen1)	
	Others	1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM)	
	Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5
Drive Bay/ Storage	External	4 Hot-swap 3.5" SATA drive bays	
	Internal	2 fixed 2.5" NVMe (PCIe4.0 x4) drive bay 1 M-key (PCIe4.0 x4); support 2280/2260/2242/2230 form factor [PCH]	
	Power Supply	Module	1+1, 80-PLUS Platinum, 450W RPSU
System Cooling	Fan	5 PWM Easy-swap 40x28 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	

1U4LW-C252

General Purpose Server for Small and Medium-sized Business Powered by Intel® Xeon® E-2300



4 Hot-swap 3.5" SATA drive bays



1 PSU (400W)

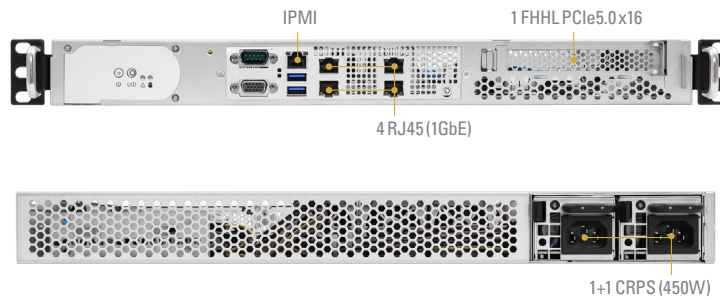
1U4LW-C252

System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")
CPU	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power Switch, ID Switch, System reset, NMI
	LEDs	PWR, UID, HDD Activity, LAN 3/4, System Event
	I/O	2 USB3.0 ports
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI via AST2500
	USB	4 USB3.2 Gen1 (5Gbps)
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 HDMI, 1 DB9 (COM)
Expansion Slots	Rear	1 PCIe4.0 x16 for full height card
Drive Bay/Storage	External	4 Hot-swap 3.5" SATA drive bays
	Internal	2 fixed 2.5" SATA drive bays or 1 fixed 2.5" SATA drive bay, 1 Slim ODD 1 M.2 ^{Note1} (PCIe3.0 x2 or SATA 6Gb/s); support 22110/2280/2260 form factor
Power Supply	Module	Single Gold 400W PSU
System Cooling	Fan	5 PWM Simple-Swap 40 x 28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: SATA0 will be disabled when M2_1 populated with SATA device

1U2S-C262/F10

1U General Purpose Server with Front I/O
for Small and Medium-sized Businesses

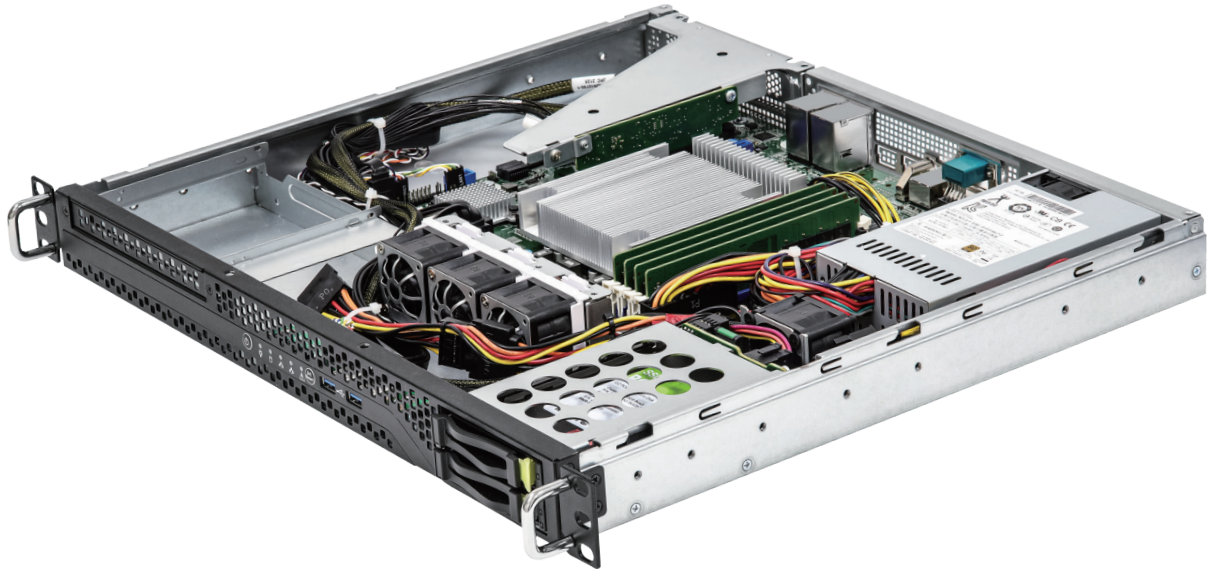


1U2S-C262/F10

System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	365.9 x 430 x 43.5mm (14.41" x 16.93" x 1.71")
CPU	Socket	1 socket LGA 1700; supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors
DIMM	Slot	4 DDR5 288-pin (2DPC)
Front Panel	Buttons	Power button w/LED, UID button w/LED
	LEDs	System Event, HDD Activity LEDs
	I/O	1 DB15 (VGA) 1 DB9 (COM) 2 Type-A (USB3.2 Gen1) 4 RJ45 (1GbE) 1 IPMI port
Rear IO		NA (Front Panel only)
Expansion Slots	Front	1 FHHL PCIe5.0 x16 via RB1UX16R_G5
Drive Bay/Storage	Internal	2 fixed 2.5" SATA (7mm) drive bays 1 M-key (PCIe4.0 x4); supports 2280/2260/2242/2230 form factor [PCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 450W RPSU
System Cooling	Fan	3 PWM 40x56 mm dual-rotor fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U2E-C252

Compact Server Supporting 2x NVMe Drives
Powered by Intel® Xeon® E-2300



2 Hot-swap 2.5" NVMe or SATA drive bays



1 PSU (315W)

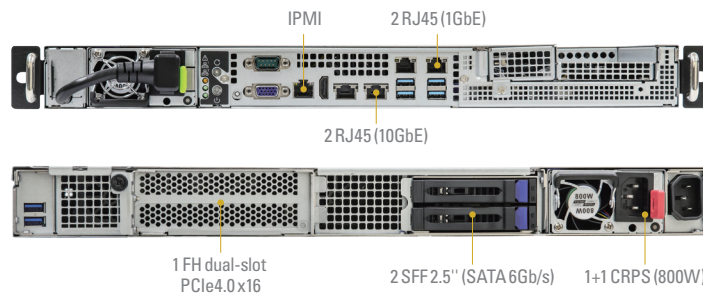
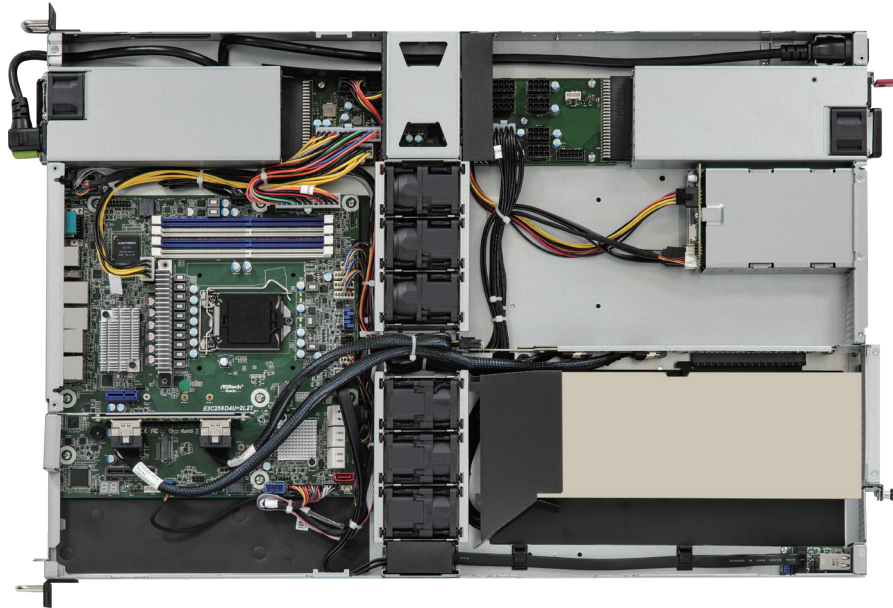
1U2E-C252

System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	393.2 x 430 x 43.5 mm (15.5" x 16.93" x 1.71")
CPU	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power, System Reset
	LEDs	PWR, HDD Activity, LAN 1/2, System Event
	I/O	2 USB3.0 ports
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI via AST2500
	USB	4 USB3.2 Gen1 (5Gbps)
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 HDMI, 1 DB9 (COM)
Drive Bay/ Storage	External	2 Hot-swap 2.5" NVMe or 2.5" SATA drive bays
	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD (optional)
		1 M.2 ^{Note1} (PCIe3.0 x2 or SATA 6Gb/s); support 22110/2280/2260 form factor
Power Supply	Module	Single Gold 315W PSU
System Cooling	Fan	4 PWM Simple-Swap 40 x 28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: SATA0 will be disabled when M2_1 populated with SATA device

1U1G-C256/2L2T

1U Short-depth GPU Server
for Edge Deployment



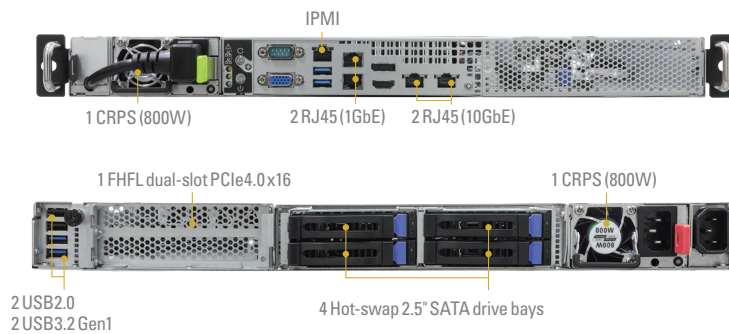
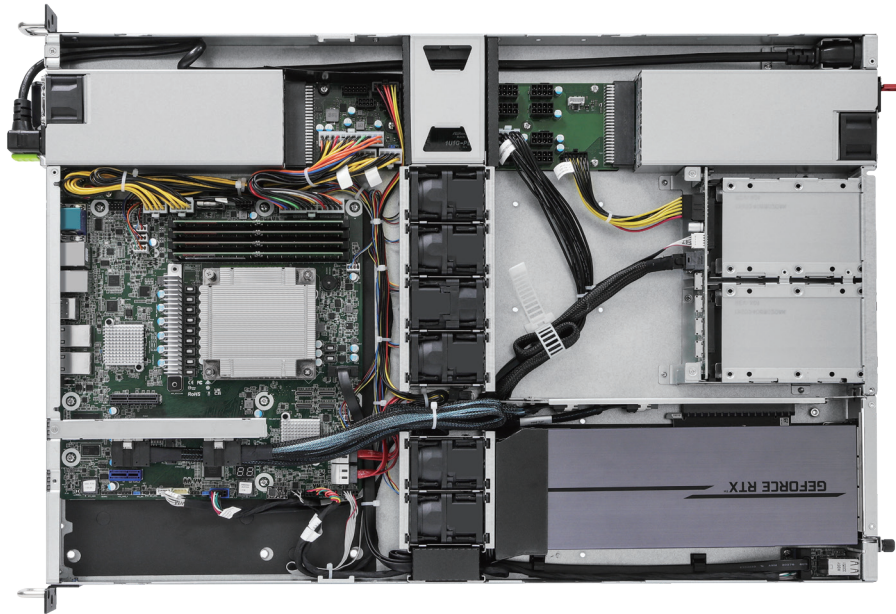
1U1G-C256/2L2T

System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	438.0x 660.4x 43.5 mm (without ear)
CPU	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Reset, Power w/ LED, UID w/ LED
	LEDs I/O	System Fail, LAN1, LAN2 2 RJ45(10GbE) by Intel X710-AT2, 2 RJ45 (1GbE) by i210, 2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 DB9 (COM), 1 HDMI, 1 dedicated IPMI
Rear IO	USB	2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	1 FH dual-slot PCIe4.0 x16
Drive Bay/ Storage	External	2 SFF 2.5" (SATA 6Gb/s)
	Internal	1 M-key ^{Note} (PCIe3.0 x4 or SATA 6Gb/s); support 22110/2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4); support 2280/2260 form factor [PCH]
Power Supply	Module	1+1 Platinum 800W CRPS
System Cooling	Fan	6 single-rotor 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: SATA0 will be disabled when M2_1 populated with SATA device

1U1G-W680/2L2T

1U Short-depth GPU Server with 4 External Hot-swap 2.5" drives

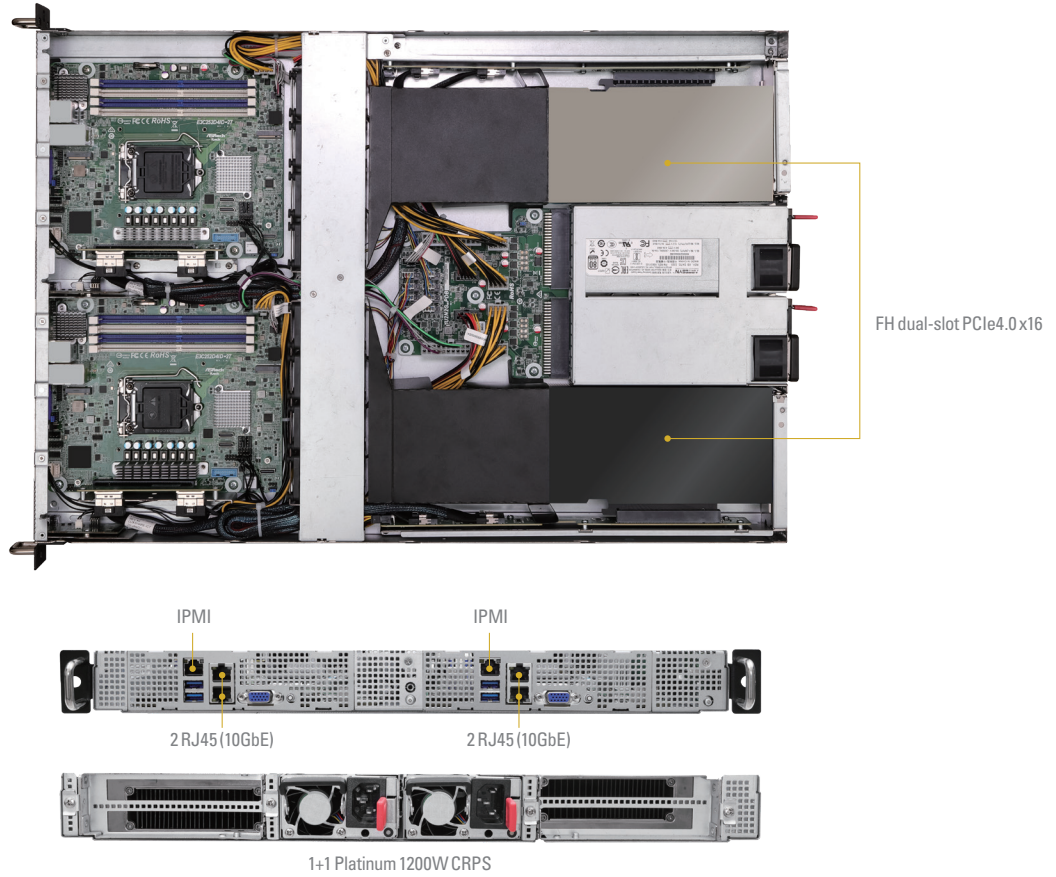


1U1G-W680/2L2T

CPU	Socket	1 Socket LGA 1700; Supports Intel® Core™ 14th Gen, 13th & 12th Gen Intel® Core™ series processors
DIMM	Slot	4 DDR5 288-pin (2DPC)
System Physical	Form Factor	1U Rackmount
Status	Chassis Dimension	650.0 x 438.0 x 43.5 mm (25.60" x 17.24" x 1.71")
Front Panel	Buttons LEDs I/O	Power button w/ LED, UID button w/ LED, System Reset System Fault, LAN1/LAN2 Activity 1 DB15 (VGA), 1 HDMI, 1 DisplayPort 1 DB9 (COM) 2 USB Type-A (USB3.2 Gen1) 2 RJ45(10GbE), 2 RJ45(1GbE), 1 dedicated IPMI
Rear IO	USB	2 Type-A (USB3.2 Gen1), 2 Type-A (USB2.0)
Expansion Slots	Rear	1 FHFL dual-slot PCIe4.0 x16 via 1U2G-RB1U2SL-G4/1U1GX570 and 1U4G_SL2P_R_RDV
Drive Bay/Storage	External Internal	4 Hot-swap 2.5" SATA 6Gb/s drive bays 1 M-key (PCIe3.0 x4), support 2280/2260/2242/2230 form factor [PCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CRPS
System Cooling	Fan	5 PWM single-rotor 40x56 mm fans 1 PWM dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

1U2N2G-C252/2T

Density-optimized 1U 2 Node
GPU Server



1U2N2G-C252/2T

System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
CPU (per node)	Socket	Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
DIMM (per node)	Slot	4 DDR4 288-pin (2DPC)
Front Panel (per node)	Buttons	UID w/LED, Power w/LED
	LEDs	System Fail
	RJ45	2 RJ45(10GbE) by Intel X710-AT2 1 dedicated IPMI
	USB	2 USB 3.2 Gen1 ports
	VGA	1 DB15
Expansion Slots (per node)	Rear	1 FH dual-slot PCIe4.0 ^{Note1} x16
Storage (per node)	Internal	1 M-key ^{Note2} (PCIe4.0 x4); supports 2280 form factor [CPU]
		1 M-key (PCIe3.0 x4); supports 2280 form factor [PCH]
Power Supply	Module	1+1 Platinum 1200W CRPS
System Cooling	Fan	8 dual-rotor 40x56 mm fans
Management (per node)		ASPEED BMC AST2500
Security (per node)		TPM by optional accessory

Note1: Supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

Note2: Supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

4U18N-C266/2T

4U Highest Density Multi-node Server for Web Hosting at Scale



4U18N-C252/2T • 4U18N-C252



		4U18N-C266/2T	4U18N-C252/2T	4U18N-C252
System	Form Factor	4U Rackmount		
Physical Status	Chassis Dimension	950 x 438 mm x 176 mm (37.4" x 17.2" x 6.9")		
CPU (per node)	Socket	1 socket LGA 1700; supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors	1 socket H5 (LGA1200); supports Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® series processors	
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)	4 DDR4 288-pin (2DPC)	
Front I/O (per node)	Buttons	Power button w/LED, UID button w/LED, Reset button		
	LEDs	System Fail, LAN1 / LAN2		
	RJ45	2 RJ45(10GbE) by Intel® X550	2 RJ45(10GbE) by Intel® X710-AT2	2 RJ45(1GbE) by Intel® I210
	USB	2 Type-A (USB 3.2 Gen1)		
	VGA	1 DB15		
		1 IPMI port (occupied for CM connection)		
Storage (per node)	Internal	2 fixed 2.5" NVMe (PCIe4.0 x4) 1 M-key (PCIe4.0 x4); support 2280 form factor [CPU] 1 M-key (PCIe4.0 x4); support 2280 form factor [PCH]	2 fixed 2.5" NVMe (PCIe4.0 ^{Note1} x4) / SATA drive bays (BT0) 1 M-key ^{Note2} (PCIe4.0 x4); support 2280 form factor [CPU] 1 M-key (PCIe3.0 x4); support 2280 form factor [PCH]	
Power Supply	Module	3+1, Platinum, 1600W CRPS		
System Cooling	Fan	5 PWM hot-swap 80x80 mm fans		
Management (per node)		ASPEED BMC AST2600	ASPEED BMC AST2500	
Security (per node)		TPM (13-pin, SPI) by optional accessory		

Note1: Supports PCIe3.0 with 10th Gen Intel® Pentium® Series Processors installed

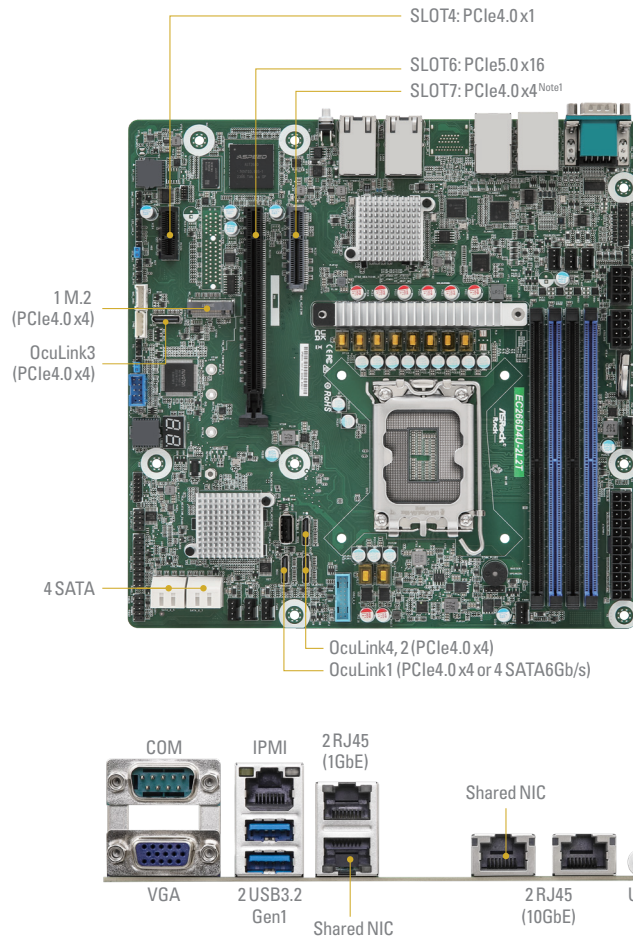
Note2: M.2 from CPU will not function with 10th Gen Intel® Pentium® Series Processors installed

EC266D4U-2L2T

General-Purpose Server with
Greater Dual 10GbE Networking



EC262D4U-2L2T



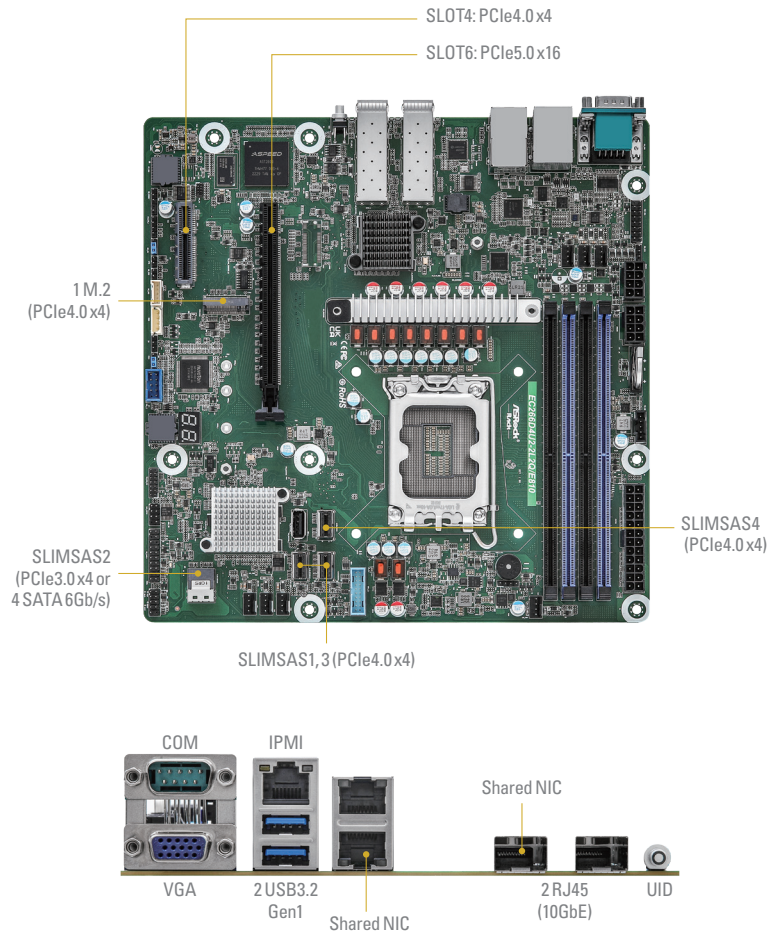
		EC266D4U-2L2T	EC262D4U-2L2T
Form Factor		Micro-ATX (9.6" x 9.6")	
Processor System	CPU	1 Socket LGA 1700; Supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	
Expansion	PCIe slot	SLOT7: PCIe4.0 x4 ^{Note1} [PCH] SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe4.0 x1 [PCH]	
	Others	OCuLink4 (PCIe4.0 x4) ^{Note1} [CPU] OCuLink1 (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] OCuLink2, 3 (PCIe4.0 x4) [PCH]	OCuLink4 (PCIe4.0 x4) ^{Note1} [CPU] OCuLink1 (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH]
Storage	M.2	1 M-key (PCIe4.0 x4); support 2280/2260/2242/2230 form factor [PCH]	
	SATA port	8 SATA 6Gb/s: 4 SATA 7-pin, 1 OcuLink	
Network	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210	
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 3 USB2.0 ports: 1 vertical Type-A, 2 via 9-pin header	
	COM port	1 DB9 (COM)	
	Video	1 DB15 (VGA)	
Security	TPM	Supports 13-pin (SPI) TPM modules	

Note1: SLOT7 share lanes with OcuLink4. OcuLink4 will disable when SLOT7 is populated

EC266D4U2-2L2Q/E810

EC262D4U2-2L2Q/E810

General-Purpose Server with
Greater Dual 25GbE Networking

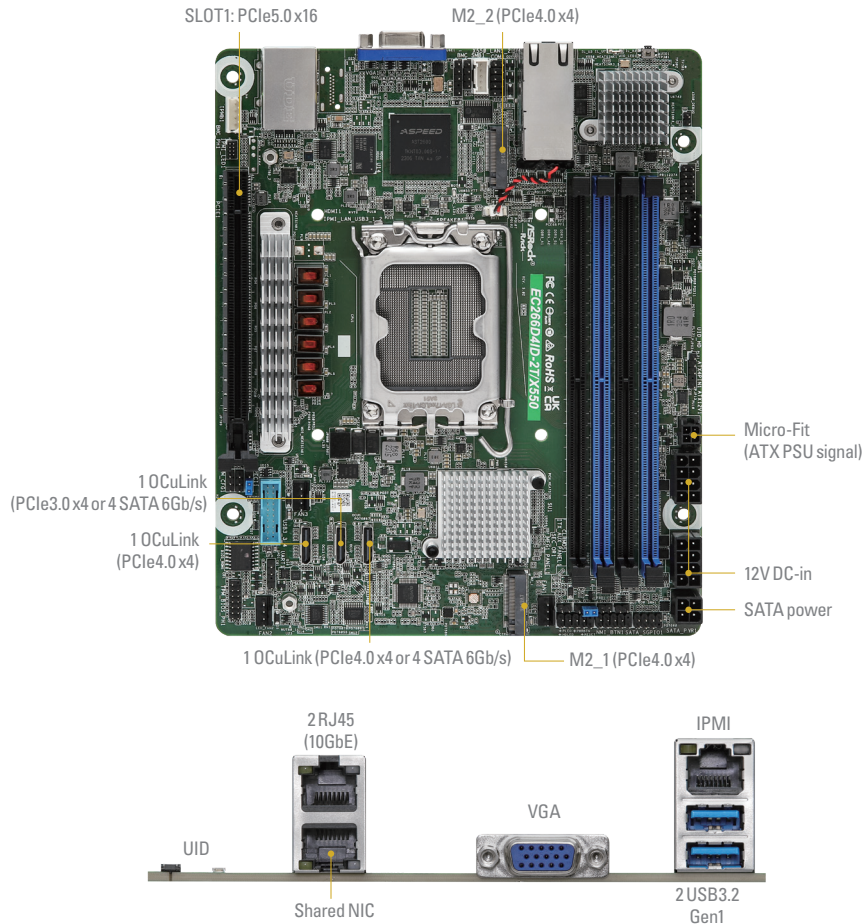


		EC266D4U2-2L2Q/E810	EC262D4U2-2L2Q/E810
Form Factor		Micro-ATX (9.6" x 9.6")	
Processor System	CPU	1 Socket LGA 1700; Supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	
Expansion	PCIe slot	SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe4.0 x4 [PCH]	
	Others	SLIMSAS1, 3 (PCIe4.0 x4) [PCH] SLIMSAS2 (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] SLIMSAS4(PCIe4.0 x4) [CPU]	SLIMSAS2 (4 SATA 6Gb/s) [PCH] SLIMSAS4 (PCIe4.0 x4) [CPU]
Storage	M.2	1 M-key (PCIe4.0 x4 or SATA 6Gb/s); support 2280/2260/2242/2230 form factor [PCH]	
	SATA port	5 SATA 6Gb/s: 1 SlimSAS, 1 M.2	
Network	RJ45	2 SFP28 (25GbE) by Intel® E810-XXVAM2 2 RJ45 (1GbE) by Intel® i210	
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 3 USB2.0 ports: 1 vertical Type-A, 2 via 9-pin header	
	COM port	1 DB9 (COM)	
	Video	1 DB15 (VGA)	
Security	TPM	Supports 13-pin (SPI) TPM modules	

EC266D4ID-2T/X550

EC262D4ID-2T/X550

Xeon E-2400 Compact Board
For Small Form Factor Applications



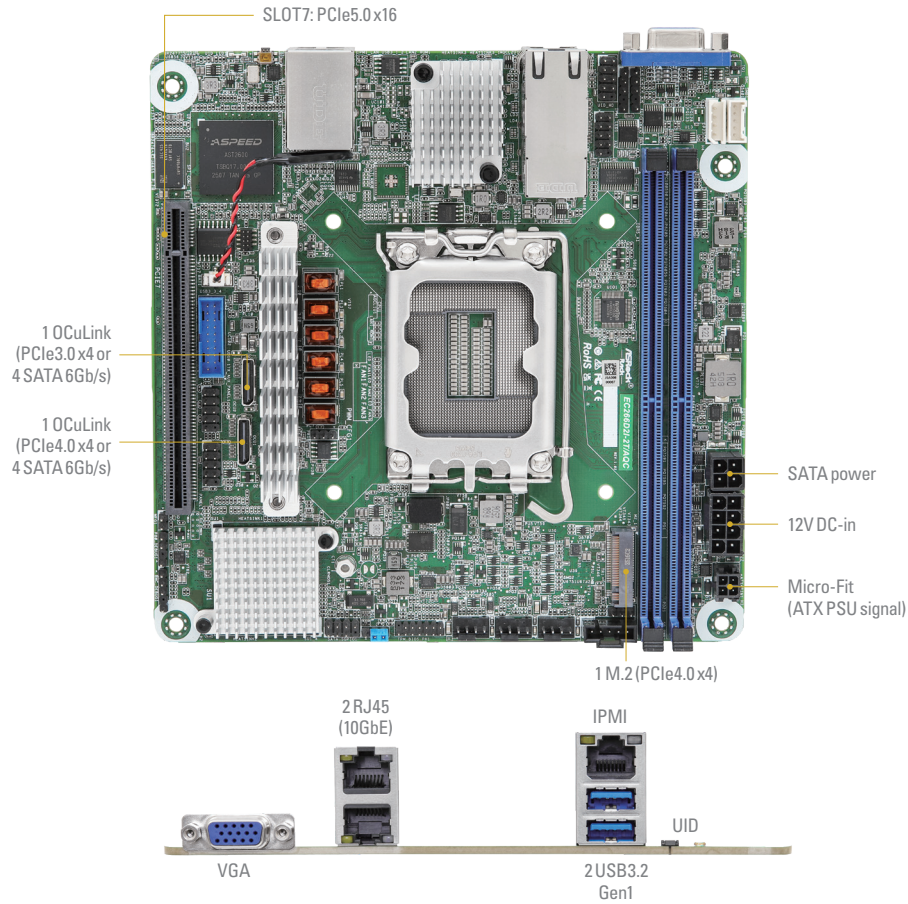
		EC266D4ID-2T/X550	EC262D4ID-2T/X550
Power source		Supports ATX PSU or 12V DC-in	
Form Factor		Deep mini-ITX (6.7" x 8.2")	
Processor System	CPU	1 Socket LGA 1700; Supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC / UDIMM, max. 4400MT/s (2DPC-1DIMM) / 4000MT/s (2DPC-2DIMM 1R) / 3600MT/s (2DPC-2DIMM 2R)	
	Expansion	PCIe slot Others	SLOT1: PCIe5.0 x16 [CPU] 1 OCuLink (PCIe4.0 x4) [PCH] 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
Storage	M.2	M2_1 (PCIe4.0 x4); support 2280 form factor [PCH] M2_2 (PCIe4.0 x4); support 2280 form factor [CPU]	
	SATA port	8 SATA 6Gb/s: 2 OCuLink	
Network	RJ45	2 RJ45 (10GbE) by Intel® X550	
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header	
	Video	1 DB15 (VGA)	
Security	TPM	Supports 13-pin (SPI) TPM modules	

EC266D2I-2T/AQC

Mini-ITX Board for Mini-Tower and Home NAS Servers



EC266D2I EC262D2I-2T/AQC EC262D2I



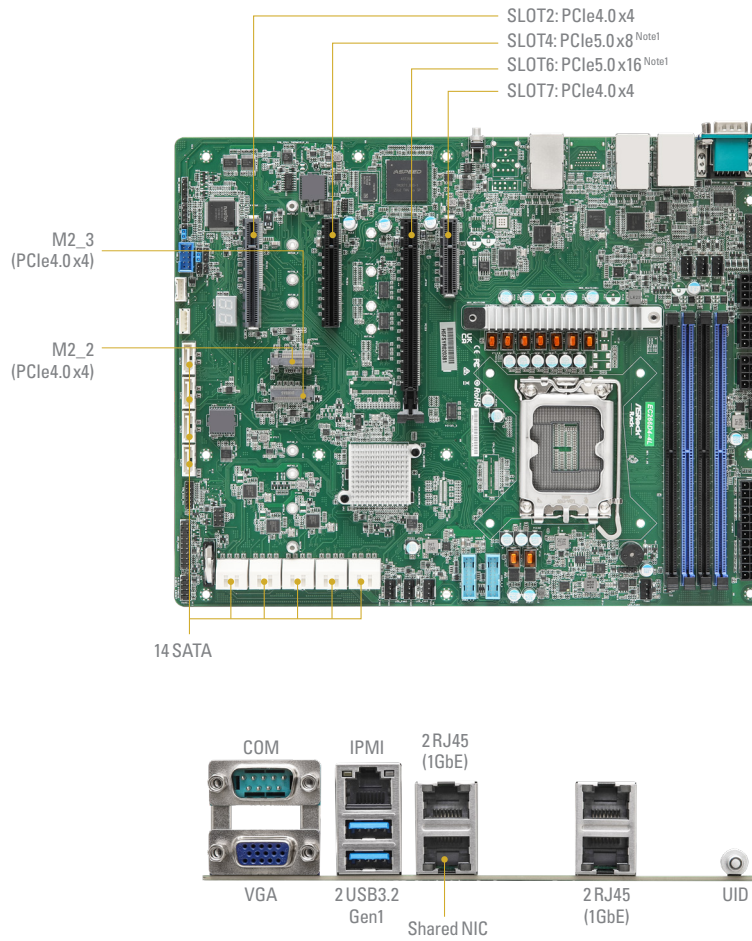
		EC266D2I-2T/AQC	EC266D2I	EC262D2I-2T/AQC	EC262D2I
Power source		Supports ATX PSU or 12V DC-in			
Form Factor		mini-ITX (6.7" x 6.7")			
Processor System	CPU	1 Socket LGA 1700; Supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors			
	PCH	Intel® C266		Intel® C262	
Memory	Capacity	2 DIMM Slots (1DPC); Supports DDR5 ECC UDIMM, max. 4800MT/s			
Expansion	PCIe slot	SLOT7: PCIe5.0 x16 [CPU]			
	Others	1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]		1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (4 SATA 6Gb/s) [PCH]	
Storage	M.2	1 M-key (PCIe4.0 x4); support 2280 form factor [CPU]			
	SATA port	8 SATA 6Gb/s: 2 OCuLink			
Network	RJ45	2 RJ45 (10GbE) by Marvell AQC113	2 RJ45 (1GbE) by Intel® i210	2 RJ45 (10GbE) by Marvell AQC113	2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2600			
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F			
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header			
	Video	1 DB15 (VGA)			
Security	TPM	Supports 13-pin (SPI) TPM modules			

EC266D4-4L

Intensive I/O Expansions ATX Board
Come with Quad 1GbE Networking



EC262D4-4L



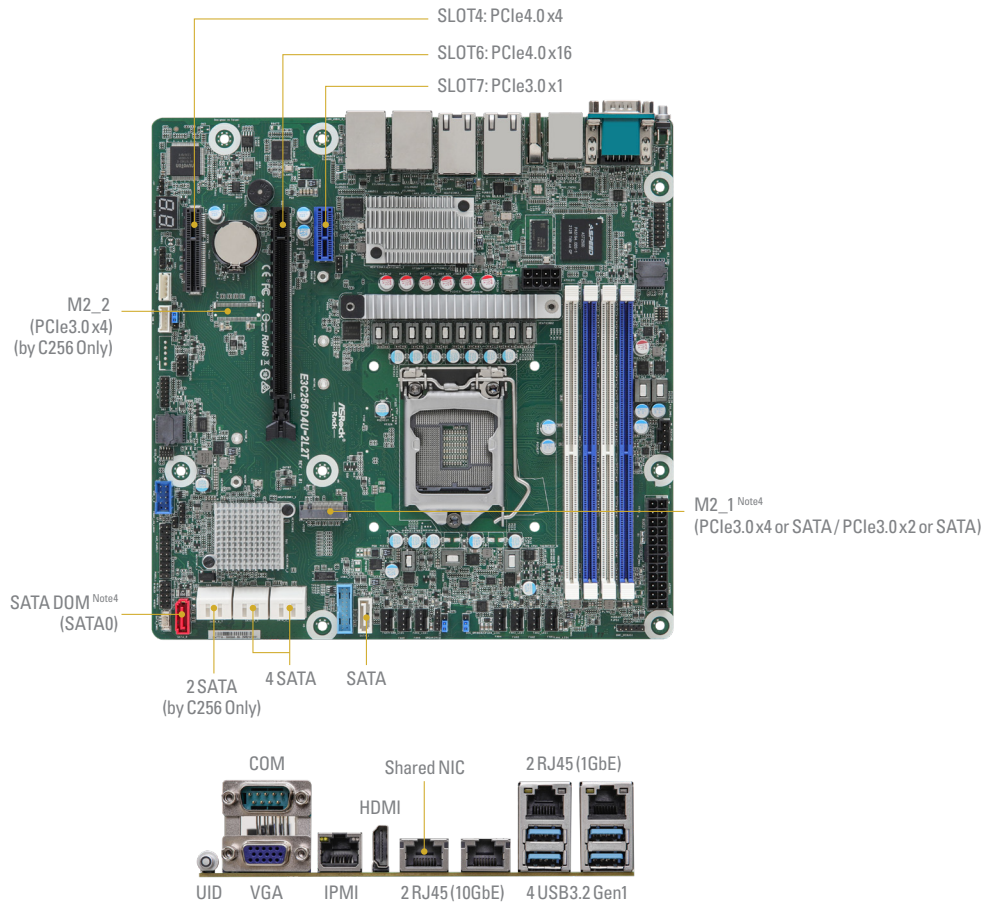
		EC266D4-4L	EC262D4-4L
Form Factor		ATX (12" x 9.6")	
Processor System	CPU	1 Socket LGA 1700; Supports Intel® Xeon® 6300-series, Xeon® E-2400 series, and Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC UDIMM, max. 4400MT/s (2SPC - 1DIMM) / 4000MT/s (2SPC - 2DIMM 1R) / 3600MT/s (2SPC - 2DIMM 2R)	
Expansion	PCIe slot	SLOT7: PCIe4.0 x4 [CPU] SLOT6: PCIe5.0 x16 ^{Note1} [CPU] SLOT4: PCIe5.0 x8 ^{Note1} [CPU] SLOT2: PCIe4.0 x4 [PCH]	SLOT7: PCIe4.0 x4 [CPU] SLOT6: PCIe5.0 x16 ^{Note1} [CPU] SLOT4: PCIe5.0 x8 ^{Note1} [CPU]
Storage	M.2	M2_2 (PCIe4.0 x4); support 2280/2260/2242 form factor [PCH] M2_3 (PCIe4.0 x4); support 2280/2260/2242 form factor [PCH]	M2_2 (PCIe4.0 x4); support 2280/2260/2242 form factor [PCH]
	SATA port	14 SATA 6Gb/s; 14 SATA 7-pin	
Network	RJ45	4 RJ45 (1GbE) by Intel® i210	
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	6 USB3.2 Gen1 ports: 2 rear Type-A, 4 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header	
	COM port	1 DB9 (COM)	
	Video	1 DB15 (VGA)	
Security	TPM	Supports 13-pin (SPI) TPM modules	

Note1: SLOT4 share lanes with SLOT6. SLOT6 will switch to x8 when SLOT4 is populated.

E3C256D4U-2L2T/BCM

E3C256D4U-2L2T E3C252D4U-2T E3C252D4U

General-Purpose Server with Greater
Dual 10GbE and 1GbE Networking



		E3C256D4U-2L2T/BCM	E3C256D4U-2L2T	E3C252D4U-2T	E3C252D4U
Form Factor		Micro-ATX (9.6" x 9.6")			
Processor System	CPU	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors			
	PCH	Intel® C256	Intel® C252		
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/non-ECC UDIMM up to 32GB each, max. 3200MHz ^{Note1}			
Expansion	PCIe slot	SLOT6: PCIe4.0 x16 ^{Note2} [CPU]	SLOT7: PCIe3.0 x1 [PCH]		
		SLOT4: PCIe4.0 x4 ^{Note3} [CPU]	SLOT6: PCIe4.0 x16 ^{Note2} [CPU] SLOT4: PCIe4.0 x4 ^{Note3} [CPU]		
Storage	M.2	1 M-key ^{Note4} (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4), supports 2280/2260 form factor [PCH]		1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor [PCH]	
	SATA port	8 SATA 6Gb/s: 7 SATA 7-pin, 1 M.2 or SATA DOM ^{Note4}		6 SATA 6Gb/s: 5 SATA 7-pin, 1 M.2 or SATA DOM ^{Note4}	
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416	2 RJ45 (10GbE) by Intel® X710-AT2		2 RJ45 (1GbE) by Intel® i210
		2 RJ45 (1GbE) by Intel® i210	2 RJ45 (1GbE) by Intel® i210		
Management	BMC	ASPEED AST2500 : IPMI 2.0			
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E			
I/O	USB	6 USB3.2 Gen1 ports: 4 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header			
	COM port	1 rear DB9			
Security	TPM	Supports 13-pin (SPI) TPM modules			

Note1: Up to DDR4 2666MHz when installing 10th Gen Intel® Pentium® Series Processors

Note2: SLOT6 supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

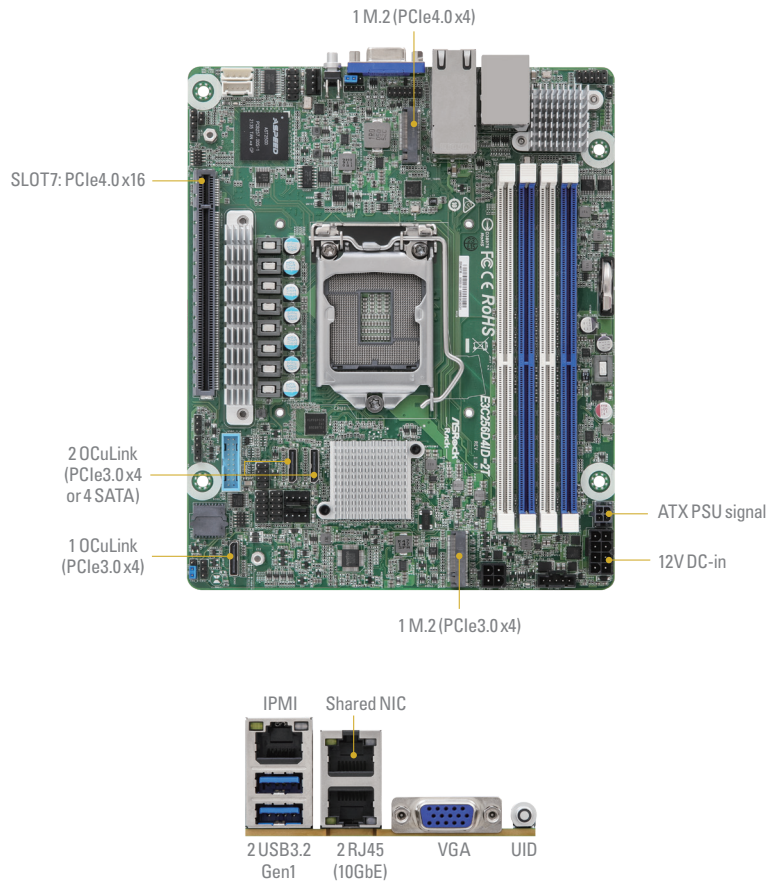
Note3: SLOT4 will not function when installing 10th Gen Intel® Pentium® Series Processors

Note4: SATA DOM will be disabled when M2_1 populated with SATA device

E3C256D4ID-2T

E3C252D4ID-2T E3C256D4ID2

Most Compact Xeon E Unleashing
4 DIMMs and All PCIe



		E3C256D4ID-2T	E3C252D4ID-2T	E3C256D4ID2
Power source		Supports ATX PSU or 12V DC-in		NA
Form Factor		Deep mini-ITX (6.7" x 8.2")		
Processor System	CPU	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors		
	PCH	Intel® C256	Intel® C252	Intel® C256
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/ non-ECC UDIMM up to 32GB each, max. 3200MHz ^{Note1}		
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 ^{Note2} [CPU]		
	Others	2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]	1 OCuLink (PCIe3.0 x2 or 4 SATA 6Gb/s) [PCH]	2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
		1 OCuLink (PCIe3.0 x4) [PCH]	1 OCuLink (2 SATA 6Gb/s) [PCH]	1 OCuLink (PCIe3.0 x4) [PCH]
Storage	M.2	1 M-key ^{Note3} (PCIe4.0 x4), supports 2280 form factor [CPU] 1 M-key (PCIe3.0 x4), supports 2280 form factor [PCH]		
	SATA port	8 SATA 6Gb/s: 2 OCuLink	6 SATA 6Gb/s: 2 OCuLink	8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2		2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI 2.0		
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E		
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header		
	COM port	9-pin header		
Security	TPM	Supports 13-pin (SPI) TPM modules		

Note1: Up to DDR4 2666MHz when installing 10th Gen Intel® Pentium® Series Processors

Note2: SLOT7 supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

Note3: M.2 from CPU will not function when installing 10th Gen Intel® Pentium® Series Processors

E3C256D2I

Mini-ITX Board for Mini-Tower and Home NAS Servers



Power source		Supports ATX PSU or 12V DC-in
Form Factor		m-ITX (6.7" x 6.7")
Processor System	CPU PCH	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors Intel® C256
Memory	Capacity	2 DIMM Slots (1DPC); Supports DDR4 ECC/ non-ECC UDIMM up to 32GB each, max. 3200MHz ^{Note1}
Expansion	PCIe slot Others	SLOT7: PCIe4.0 x16 ^{Note2} [CPU] 2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
Storage	M.2 SATA port	1 M-key ^{Note3} (PCIe4.0 x4), supports 2280 form factor [CPU] 8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	2 RJ45 (1GbE) by Intel® I210
Management	BMC Dedicated IPMI	ASPEED AST2500: IPMI 2.0 1 RJ45 via Realtek RTL8211E
I/O	USB COM port	2 USB3.2 Gen2 ports: 2 rear Type-A 4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Up to DDR4 2666MHz when installing 10th Gen Intel® Pentium® Series Processors

Note2: SLOT7 supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

Note3: M.2 will not function when installing 10th Gen Intel® Pentium® Series Processors

E3C256D4I-2T

Ultra Compact Server Board Equipped with 4 SO-DIMMs, Dual 10GbE and IPMI



Power source		Supports ATX PSU or 12V DC-in
Form Factor		m-ITX (6.7" x 6.7")
Processor System	CPU PCH	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors Intel® C256
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/non-ECC SODIMM up to 32GB each, 1DPC max. 3200MHz; 2DPC max. 2133MHz
Expansion	PCIe slot Others	SLOT7: PCIe4.0 x16 ^{Note1} [CPU] 2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
Storage	M.2 SATA port	1 M-key ^{Note2} (PCIe4.0 x4), supports 2280 form factor [CPU] 8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	2 RJ45 (10GbE) by Intel® X550
Management	BMC Dedicated IPMI	ASPEED AST2500 : IPMI 2.0 1 RJ45 via Realtek RTL8211E
I/O	USB COM port	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules

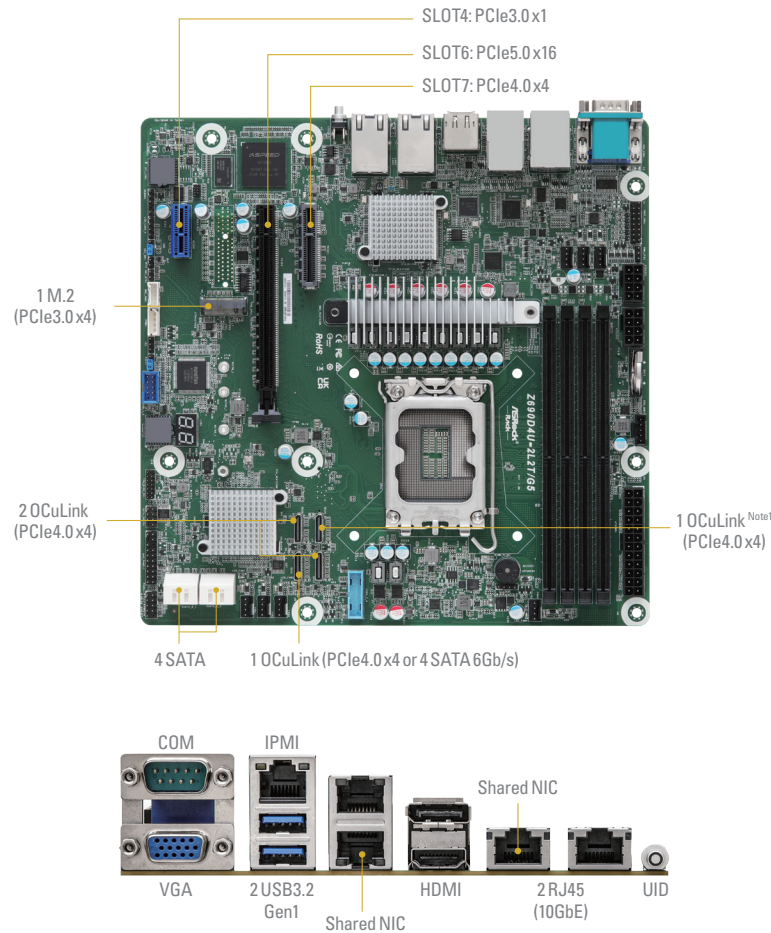
Note1: SLOT7 supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

Note2: M.2 will not function when installing 10th Gen Intel® Pentium® Series Processors

Z690D4U-2L2T/G5

W680D4U-2L2T/G5

Intel® Core™ Server Supporting DDR5 Memory Designed for Compute-intensive Edge Workloads with PCIe Gen5



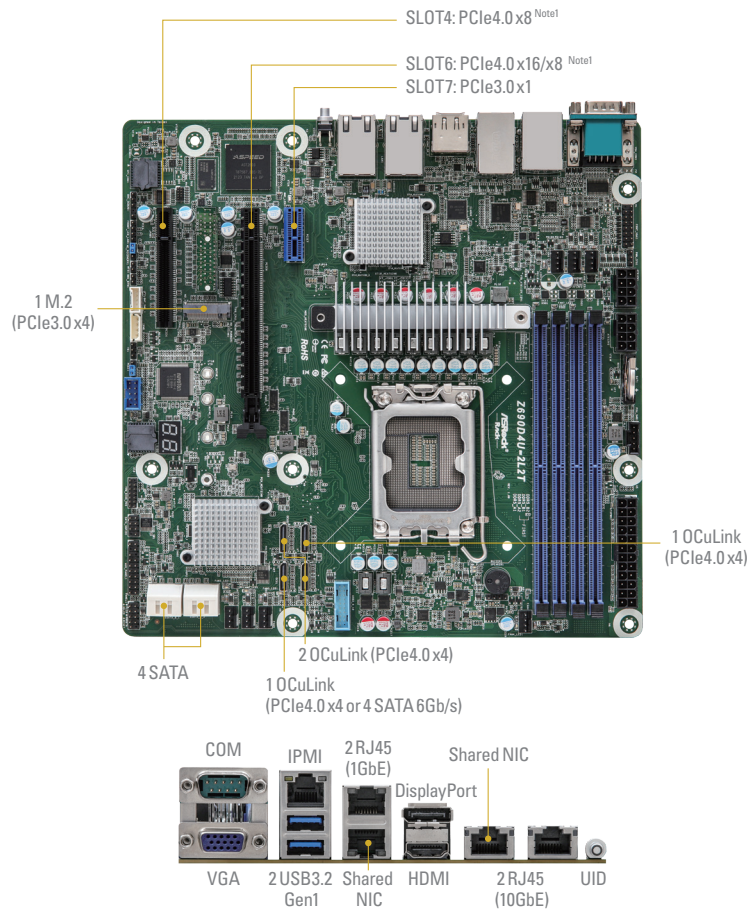
		Z690D4U-2L2T/G5	W680D4U-2L2T/G5
Form Factor		Micro-ATX (9.6" x 9.6")	
Processor System	CPU	1 Socket LGA 1700; Intel® Core™ 14 th Gen, 13 th & 12 th Gen Intel® Core™, Pentium® and Celeron® series processors	1 Socket LGA 1700; Supports Intel® Core™ 14 th Gen, 13 th & 12 th Gen Intel® Core™ series processors
	PCH	Intel® Z690	Intel® W680
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 non-ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)
	PCIe slot	SLOTT7: PCIe4.0 x4 [CPU] SLOTT6: PCIe5.0 x16 [CPU] SLOTT4: PCIe3.0 x1 [PCH]	
Expansion	Others	1 OCuLink ^{Note1} (PCIe4.0 x4) [CPU] 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 2 OCuLink (PCIe4.0 x4) [PCH]	
	Storage	M.2 SATA port	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [PCH] 8 SATA 6Gb/s: 4 SATA 7-pin, 1 OCuLink
Network	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210	
	Management	BMC Dedicated IPMI	ASPEED AST2600 1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header	
	COM port	1 rear DB9	
	Video	1 DisplayPort, 1 HDMI, 1 DB15 (VGA)	
Security	TPM	Supports 13-pin (SPI) TPM modules	

Note1: OCuLink4 shares lanes with SLOTT7 and will be disabled when SLOTT7 is populated.

Z690D4U-2L2T

Z690D4U W680D4U-2L2T W680D4U

Intel® Core™ Server Supporting DDR5
Memory Designed for
Compute-intensive Edge Workloads



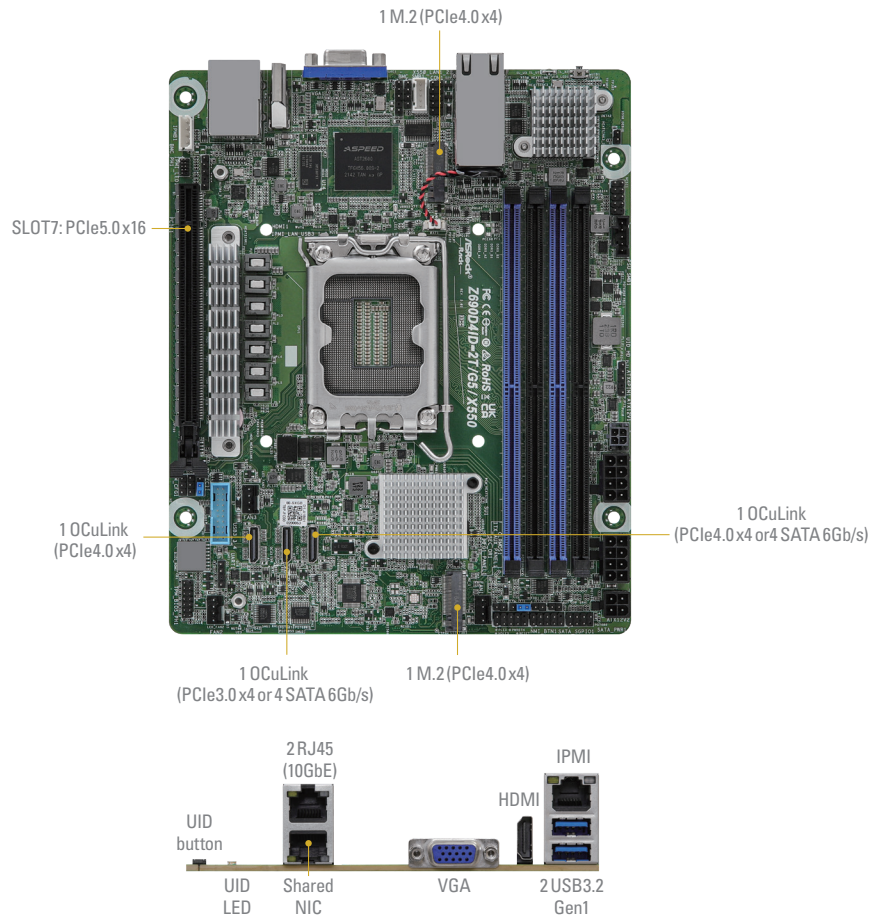
		Z690D4U-2L2T	Z690D4U	W680D4U-2L2T	W680D4U
Form Factor		Micro-ATX (9.6" x 9.6")			
Processor System	CPU	1 Socket LGA 1700; Supports Intel® Core™ 14 th Gen, 13 th & 12 th Gen Intel® Core™, Pentium® and Celeron® series processors		1 Socket LGA 1700; Supports Intel® Core™ 14 th Gen, 13 th & 12 th Gen Intel® Core™ series processors	
	PCH	Intel® Z690		Intel® W680	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 non-ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)		4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	
Expansion	PCIe slot	SLOT7: PCIe3.0 x1 [PCH] SLOT6: PCIe4.0 x16 ^{Note1} [CPU] SLOT4: PCIe4.0 x8 ^{Note1} [CPU]			
	Others	1 OCuLink (PCIe4.0 x4) [CPU] 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 2 OCuLink (PCIe4.0 x4) [PCH]			
Storage	M.2	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [PCH]			
	SATA port	8 SATA 6Gb/s: 4 SATA 7-pin, 1 OCuLink			
Network	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210	2 RJ45 (1GbE) by Intel® i210	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210	2 RJ45 (1GbE) by Intel® i210
	BMC	ASPEED AST2600			
Management	Dedicated IPMI	1 RJ45 via Realtek RTL8211F			
	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header			
I/O	COM port	1 rear DB9			
	Video	1 DisplayPort, 1 HDMI, 1 DB15 (VGA)			
Security	TPM	Supports 13-pin (SPI) TPM modules			

Note1: SLOT6 auto-switch to PCIe4.0 x8 when SLOT4 occupied

Z690D4ID-2T/G5/X550

W680D4ID-2T/G5/X550

Intel® Core™ Server Supporting DDR5
Memory Designed for Small Form
Factor Applications



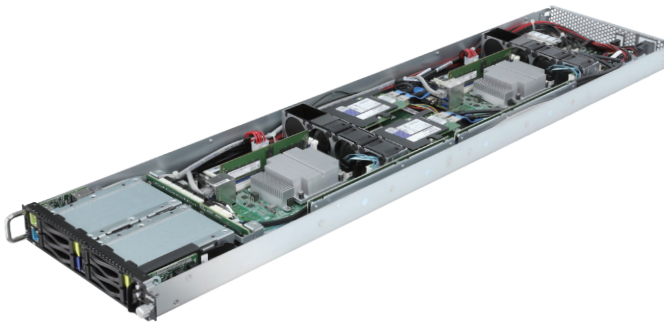
		Z690D4ID-2T/G5/X550	W680D4ID-2T/G5/X550
Form Factor		Deep mini-ITX (6.7" x 8.2")	
Processor System	CPU	1 Socket LGA 1700; Intel® Core™ 14 th Gen, 13 th & 12 th Gen Intel® Core™, Pentium® and Celeron® series processors	1 Socket LGA 1700; Supports Intel® Core™ 14 th Gen, 13 th & 12 th Gen Intel® Core™ series processors
	PCH	Intel® Z690	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 non-ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)
	Expansion	PCIe slot Others	SLOT7: PCIe5.0 x16 [CPU] 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe4.0 x4) [PCH]
Storage	M.2	1 M-key (PCIe4.0 x4); support 2280 form factor [CPU] 1 M-key (PCIe4.0 x4); support 2280 form factor [PCH]	
	SATA port	8 SATA 6Gb/s: 2 OCuLink	
Network	RJ45	2 RJ45 (10GbE) by Intel® X550	
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header	
	COM port	1 (9-pin) header	
	Video	1 DB15 (VGA), 1 HDMI	
Security	TPM	Supports 13-pin (SPI) TPM modules	

About ASRock Rack

ASRock Rack Inc., established in 2013, specialized in the field of Cloud Computing server hardware. Inheriting ASRock's design concepts, Creativity, Consideration and Cost-effectiveness, the company is dedicated bringing the Server Industry out of the box thinking with the passion to innovate. Leveraged by ASRock's growing momentum and distribution channels, this young and vibrant company targets at the booming market of cloud computing and commits to serve the market with user friendly, eco-friendly, Do-It-Yourself Server hardware, featuring flexible and reliable products.

Barebones Series

Leveraging the Versatile Portfolio, ASRock Rack Barebones Series provide the solutions for Cloud, AI, Deep Learning and 5G with high density and multi-node of computing, storage and networking with lower TCO and greater efficiency.



OPEN 19

The Open19 project is an industry specification that defines a cross-industry common server form factor; with the open standard technology and wide levels of adoption, the Open19 creates more flexible and economic for data center and edge solutions as well as the operators of all sizes.

Server Motherboards

With the best performance, product lifetime, and optimized resource utilization, ASRock Rack Server Motherboards are famous and popular among industry investment, especially for the flexibility and versatility.



Workstation Motherboards

Featuring reliable, quiet, and power-efficient, these workstations are best tools for the content creators.



Reliable Server
Advancing Technology
Considerable Design
Knowledgeable Professional

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