

# Intel® Xeon® E-2400/2300 Processors

## Essential performance, Business-ready

Server Motherboards

General Purpose/ GPU/ Multi-node Barebones



# Server Platform Naming Rule

## EC266D4U-2L2T

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

## 1U4LW-C262/2L2T

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

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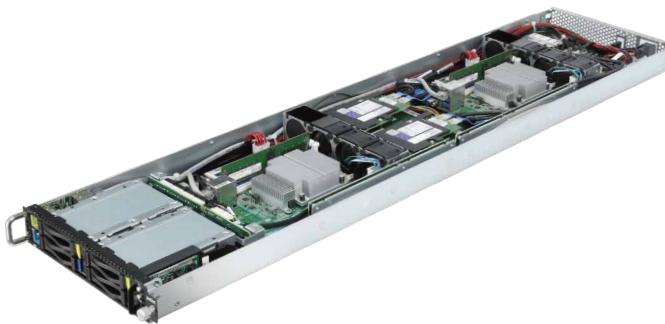
SERVER MOTHERBOARD		
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## About ASRock Rack

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.

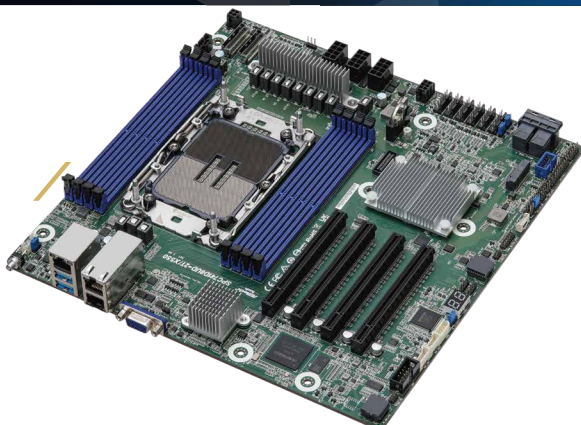
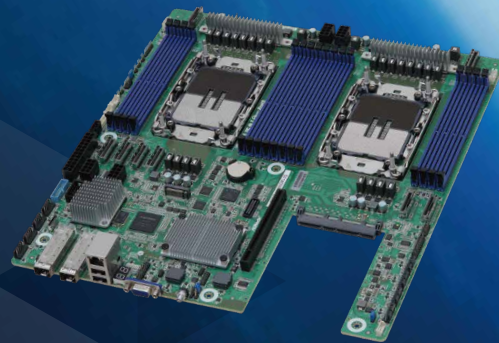


### OPEN 19

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.

# 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



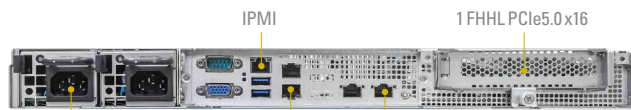
2 fixed 2.5" NVMe (PCIe4.0 x4) drive bay



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

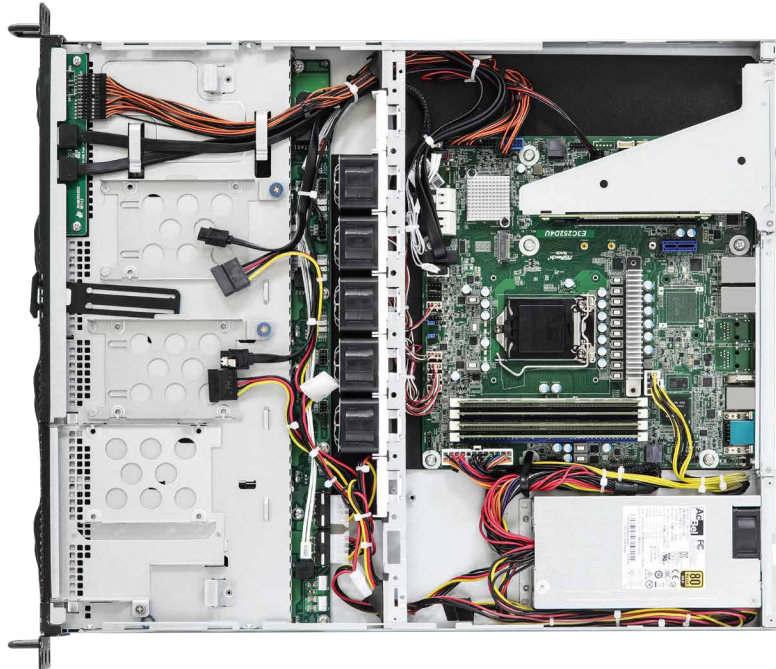


1 PSU (400W) 2 RJ45 (1GbE) 2 RJ45 (10GbE) IPMI 1 FHHL PCIe5.0 x16

		1U4LW-C262/2L2T RPSU	1U4LW-C262/2L2T
<b>CPU</b>	Socket	1 Socket V1 (LGA1700); Supports Intel® Xeon® E-2400 series and Intel® Pentium® Gold G7400/G7400T processors	
<b>DIMM</b>	Slot	4 DDR5 288-pin (2DPC)	
<b>System Physical Status</b>	Form Factor	1U Rackmount	
	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")	
<b>Front Panel</b>	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)	
<b>Rear IO</b>	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)	
<b>Expansion Slots</b>	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5	
<b>Drive Bay/ Storage</b>	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]	
<b>Power Supply</b>	Module	1+1, 80-PLUS Platinum, 450W RPSU	1, 80-PLUS Gold, 400W PSU
<b>System Cooling</b>	Fan	5 PWM Easy-swap 40x28 mm fans	
<b>Management</b>		ASPEED BMC AST2600	
<b>Security</b>		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)

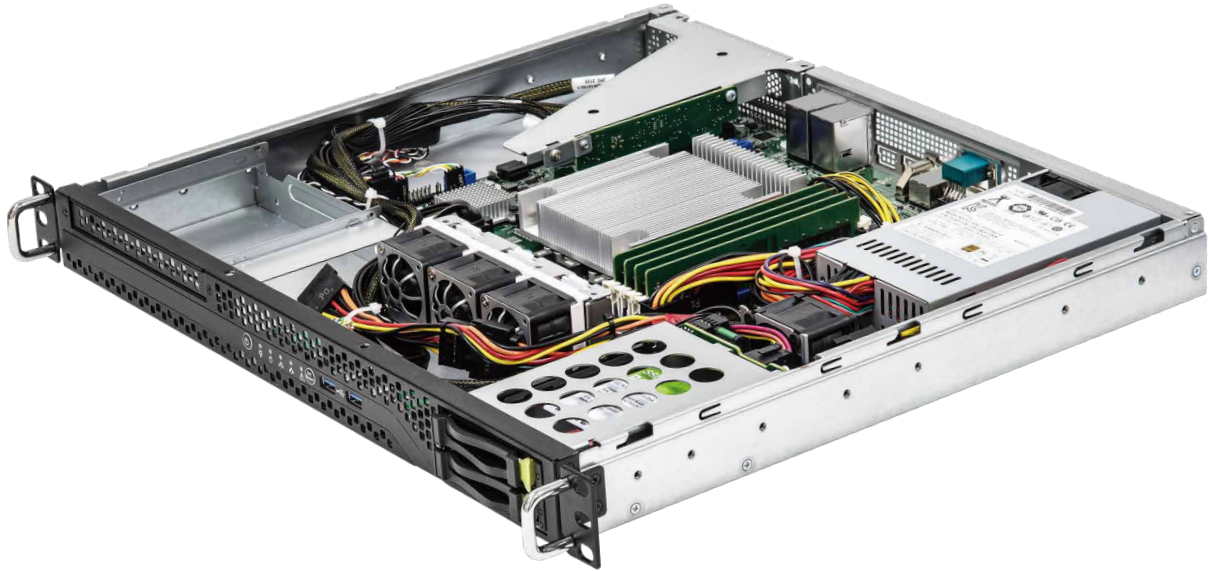
## 1U4LW-C252

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

Note1: SATA0 will be disabled when M2\_1 populated with SATA device

# 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)

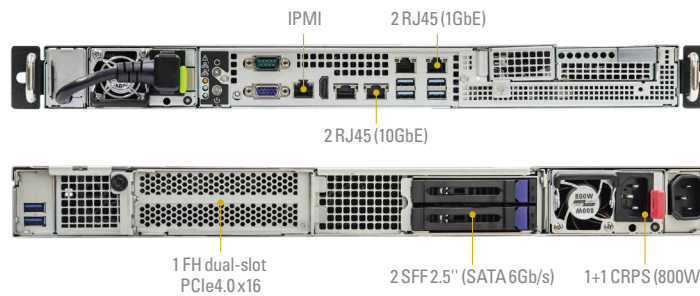
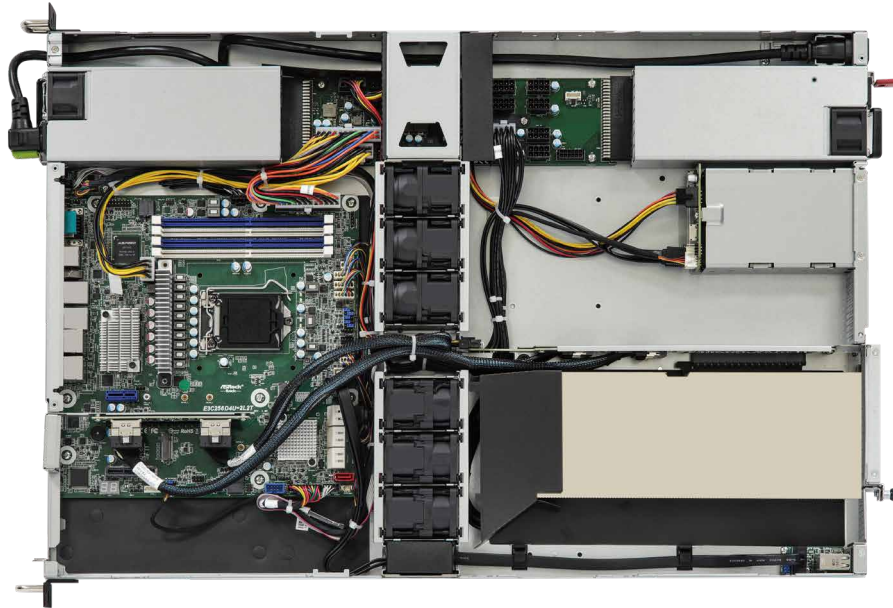
## 1U2E-C252

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

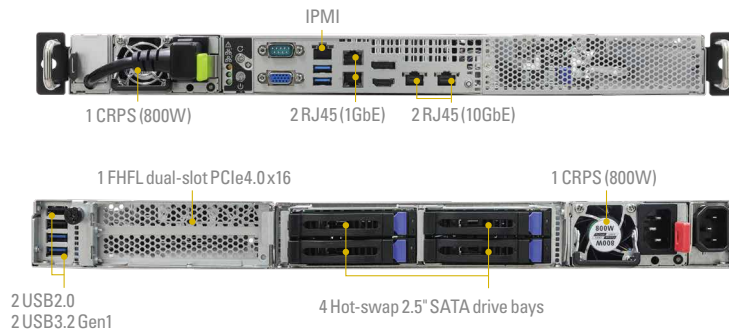
<b>System</b>	Form Factor	1U Rackmount
<b>Physical Status</b>	Chassis Dimension	438.0x 660.4x 43.5 mm (without ear)
	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
<b>CPU</b>	Slot	4 DDR4 288-pin (2DPC)
<b>DIMM</b>	Buttons	Reset, Power w/ LED, UID w/ LED
<b>Front Panel</b>	LEDs	System Fail, LAN1, LAN2
	I/O	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
<b>Rear IO</b>	USB	2 Type-A (USB3.2 Gen1)
<b>Expansion Slots</b>	Rear	1 FH dual-slot PCIe4.0 x16
<b>Drive Bay/ Storage</b>	External	2 SFF 2.5" (SATA 6Gb/s)
	Internal	1 M-key <sup>Note</sup> (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]
<b>Power Supply</b>	Module	1+1 Platinum 800W CRPS
<b>System Cooling</b>	Fan	6 single-rotor 40x56 mm fans
<b>Management</b>		ASPEED BMC AST2500
<b>Security</b>		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

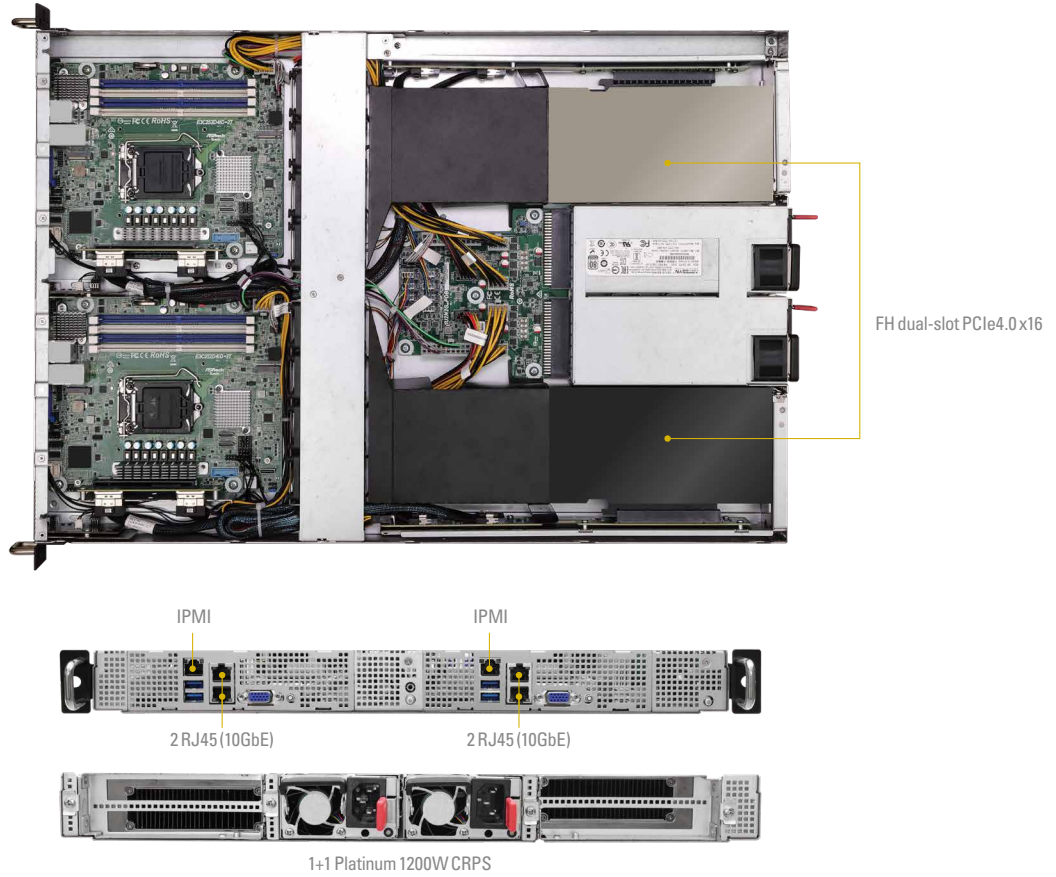


## 1U1G-W680/2L2T

<b>CPU</b>	Socket	1 Socket LGA 1700; Supports Intel® Core™ 14th Gen, 13th & 12th Gen Intel® Core™ series processors
<b>DIMM</b>	Slot	4 DDR5 288-pin (2DPC)
<b>System Physical</b>	Form Factor	1U Rackmount
<b>Status</b>	Chassis Dimension	650.0 x 438.0 x 43.5 mm (25.60" x 17.24" x 1.71")
<b>Front Panel</b>	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
<b>Rear IO</b>	USB	2 Type-A (USB3.2 Gen1), 2 Type-A (USB2.0)
<b>Expansion Slots</b>	Rear	1 FHFL dual-slot PCIe4.0 x16 via 1U2G-RB1U2SL-G4/1U1GX570 and 1U4G_SL2P_R_RDV
<b>Drive Bay/Storage</b>	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]
<b>Power Supply</b>	Module	1+1, 80-PLUS Platinum, 800W CRPS
<b>System Cooling</b>	Fan	5 PWM single-rotor 40x56 mm fans 1 PWM dual-rotor 40x56 mm fans
<b>Management</b>		ASPEED BMC AST2600
<b>Security</b>		SPI TPM by optional accessory

# 1U2N2G-C252/2T

Density-optimized 1U 2 Node  
GPU Server



## 1U2N2G-C252/2T

<b>System</b>	Form Factor	1U Rackmount
<b>Physical Status</b>	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
<b>CPU (per node)</b>	Socket	Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
<b>DIMM (per node)</b>	Slot	4 DDR4 288-pin (2DPC)
<b>Front Panel (per node)</b>	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
<b>Expansion Slots (per node)</b>	Rear	1 FH dual-slot PCIe4.0 <sup>Note1</sup> x16
<b>Storage (per node)</b>	Internal	1 M-key <sup>Note2</sup> (PCIe4.0 x4); supports 2280 form factor [CPU]
		1 M-key (PCIe3.0 x4); supports 2280 form factor [PCH]
<b>Power Supply</b>	Module	1+1 Platinum 1200W CRPS
<b>System Cooling</b>	Fan	8 dual-rotor 40x56 mm fans
<b>Management (per node)</b>		ASPEED BMC AST2500
<b>Security (per node)</b>		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-C252/2T

4U Highest-density Multi-node Server



4U18N-C252



2 fixed 2.5" NVMe/SATA drive bays

2 RJ45(10GbE) IPMI



3+1 1600W CRPS

		4U18N-C252/2T	4U18N-C252
<b>System</b>	Form Factor	4U Rackmount	
<b>Physical Status</b>	Chassis Dimension	950 x 438 mm x 176 mm	
<b>CPU (per node)</b>	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors	
<b>DIMM (per node)</b>	Slot	4 DDR4 288-pin (2DPC)	
<b>Front I/O (per node)</b>	Buttons	UID w/LED, Power, Reset	
	LEDs	System Fail, LAN1/LAN2, Power	
	RJ45	2 RJ45(10GbE) by Intel® X710-AT2	2 RJ45(1GbE) by Intel® I210
		1 dedicated IPMI	
	USB	2 Type-A (USB 3.2 Gen1)	
	VGA	1 DB15	
<b>Storage (per node)</b>	Internal	2 fixed 2.5" NVMe (PCIe4.0 <sup>Note1</sup> x4) / SATA drive bays (BT0) 1 M-key <sup>Note2</sup> (PCIe4.0 x4); supports 2280 form factor [CPU] 1 M-key (PCIe3.0 x4); supports 2280 form factor [PCH]	
<b>Power Supply</b>	Module	3+1 1600W CRPS	
<b>System Cooling</b>	Fan	5 PWM hot-swap 80x80 mm fans	
<b>Management (per node)</b>		ASPEED BMC AST2500	
<b>Security (per node)</b>		TPM by optional accessory	

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

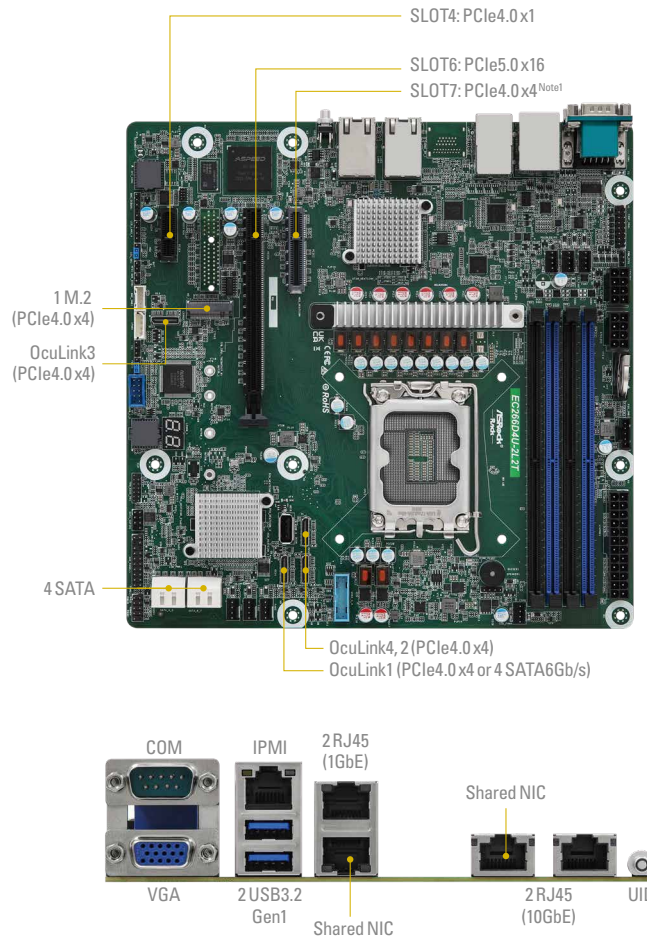
Note2: M.2 from CPU will not function when installing 10th Gen Intel® Pentium® Series Processors

# EC266D4U-2L2T

General-Purpose Server with  
Greater Dual 10GbE Networking



EC262D4U-2L2T



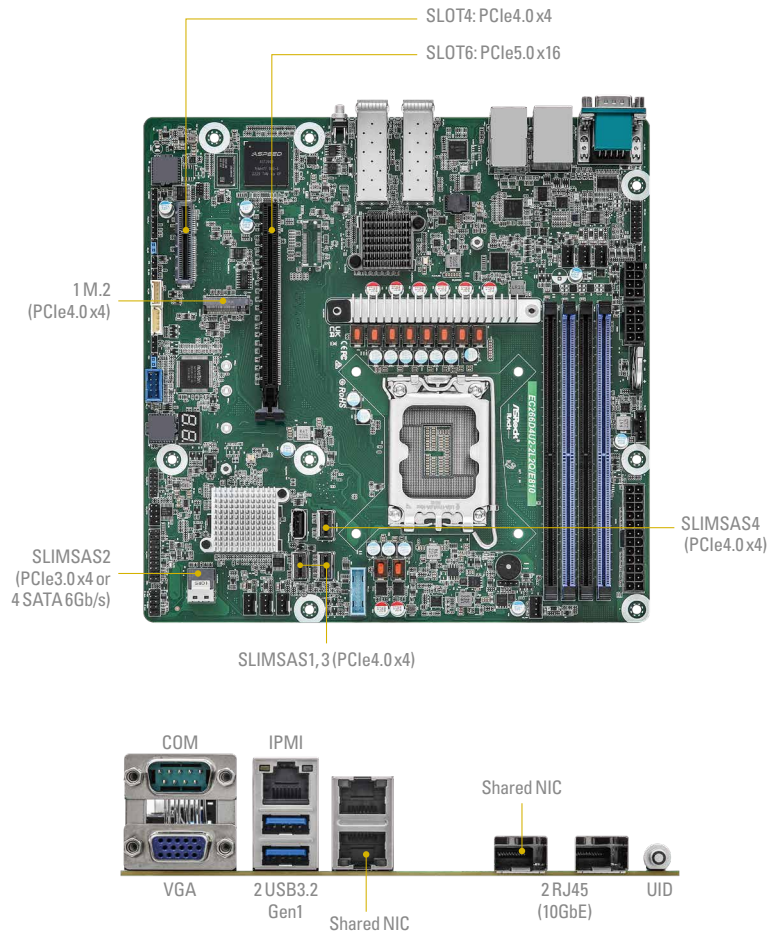
		EC266D4U-2L2T	EC262D4U-2L2T
<b>Form Factor</b>		Micro-ATX (9.6" x 9.6")	
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports Intel® Xeon® E-2400 series and Intel® Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
<b>Memory</b>	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	
<b>Expansion</b>	PCIe slot	SLOT7: PCIe4.0 x4 <sup>Note1</sup> [PCH] SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe4.0 x1 [PCH]	
	Others	OcuLink4 (PCIe4.0 x4) <sup>Note1</sup> [CPU] OcuLink1 (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] OcuLink2, 3 (PCIe4.0 x4) [PCH]	OcuLink4 (PCIe4.0 x4) <sup>Note1</sup> [CPU] OcuLink1 (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH]
<b>Storage</b>	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	
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210	
<b>Management</b>	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
<b>I/O</b>	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)	
<b>Security</b>	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

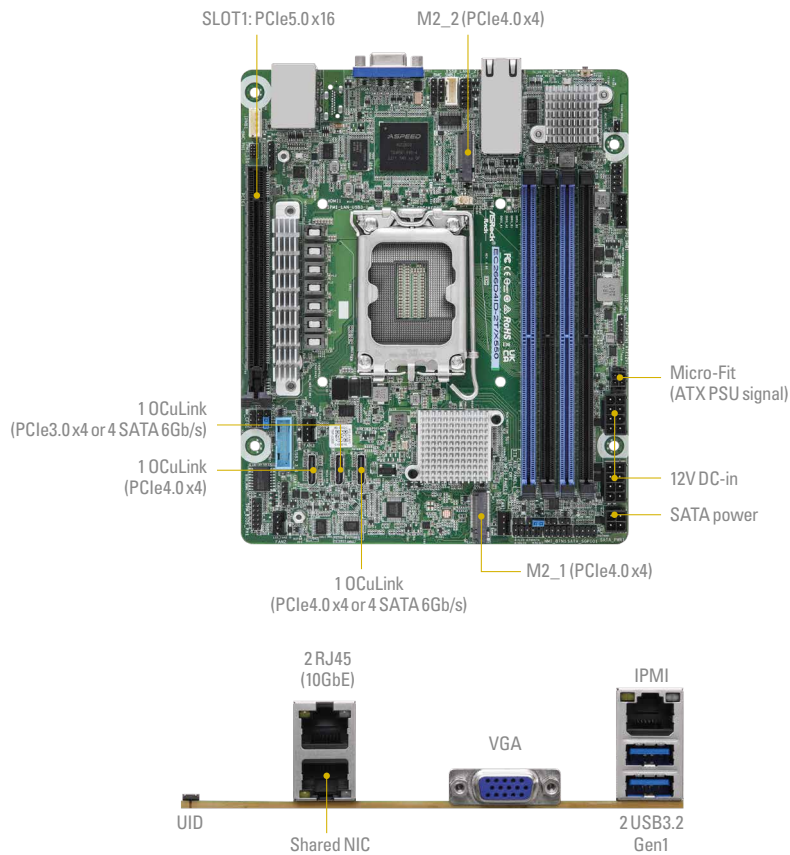


		EC266D4U2-2L2Q/E810	EC262D4U2-2L2Q/E810
<b>Form Factor</b>		Micro-ATX (9.6" x 9.6")	
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports Intel® Xeon® E-2400 series and Intel® Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
<b>Memory</b>	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC UDIMM, max. 4400MT/s (2DPC-1DIMM) / max. 4000MT/s (2DPC-2DIMM 1R) / max. 3600MT/s (2DPC-2DIMM 2R)	
<b>Expansion</b>	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]
<b>Storage</b>	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	
<b>Network</b>	RJ45	2 SFP28 (25GbE) by Intel® E810-XXVAM2 2 RJ45 (1GbE) by Intel® i210	
	BMC	ASPEED AST2600	
<b>Management</b>	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
<b>I/O</b>	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)	
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules	

# EC266D4ID-2T/X550

EC262D4ID-2T/X550

Xeon E-2400 Compact Board  
For Small Form Factor Applications



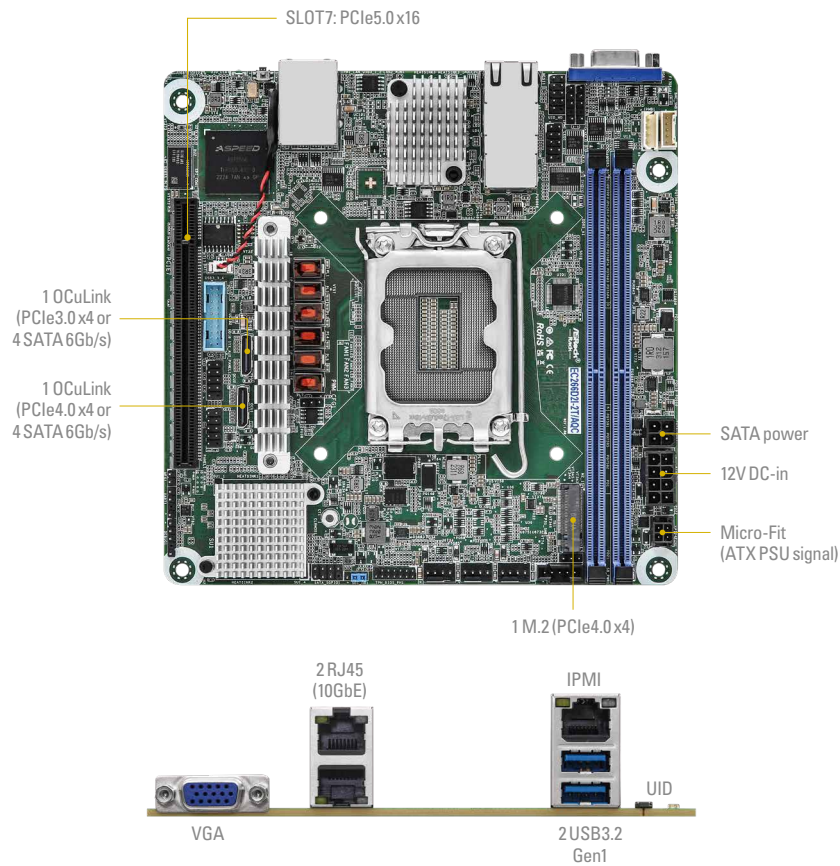
		EC266D4ID-2T/X550	EC262D4ID-2T/X550
<b>Power source</b>		Supports ATX PSU or 12V DC-in	
<b>Form Factor</b>		Deep mini-ITX (6.7" x 8.2")	
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports Intel® Xeon® E-2400 series and Intel® Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
<b>Memory</b>	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC / UDIMM, max. 4400MT/s (2DPC-1DIMM) / 4000MT/s (2DPC-2DIMM 1R) / 3600MT/s (2DPC-2DIMM 2R)	
<b>Expansion</b>	PCIe slot	SLOT1: PCIe5.0 x16 [CPU]	
	Others	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]	1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (4 SATA 6Gb/s) [PCH]
<b>Storage</b>	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	
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Intel® X550	
<b>Management</b>	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
<b>I/O</b>	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header	
	Video	1 DB15 (VGA)	
<b>Security</b>	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



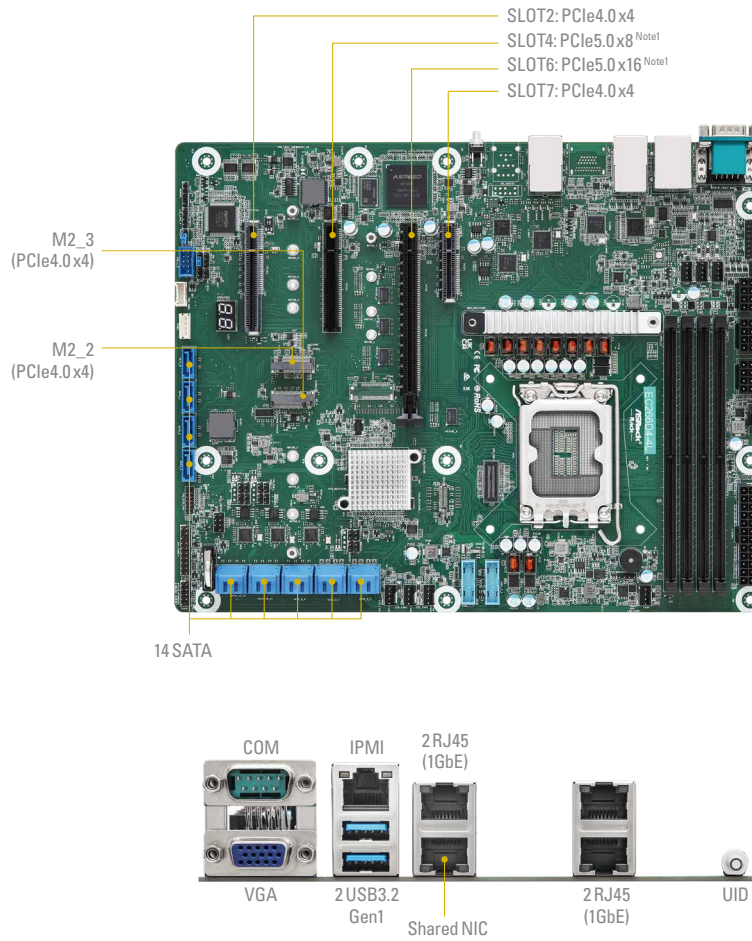
		EC266D2I-2T/AQC	EC266D2I	EC262D2I-2T/AQC	EC262D2I
<b>Power source</b>		Supports ATX PSU or 12V DC-in			
<b>Form Factor</b>		mini-ITX (6.7" x 6.7")			
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports Intel® Xeon® E-2400 series and Intel® Pentium® Gold G7400/G7400T processors			
	PCH	Intel® C266		Intel® C262	
<b>Memory</b>	Capacity	2 DIMM Slots (1DPC); Supports DDR5 ECC UDIMM, max. 4800MT/s			
<b>Expansion</b>	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]	
<b>Storage</b>	M.2	1 M-key (PCIe4.0 x4); support 2280 form factor [CPU]			
	SATA port	8 SATA 6Gb/s: 2 OCuLink			
<b>Network</b>	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
<b>Management</b>	BMC	ASPEED AST2600			
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F			
<b>I/O</b>	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header			
	Video	1 DB15 (VGA)			
<b>Security</b>	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
<b>Form Factor</b>		ATX (12" x 9.6")	
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports Intel® Xeon® E-2400 series and Intel® Pentium® Gold G7400/G7400T processors	
	PCH	Intel® C266	Intel® C262
<b>Memory</b>	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC UDIMM, max. 4400MT/s (2SPC - 1DIMM) / 4000MT/s (2SPC - 2DIMM 1R) / 3600MT/s (2SPC - 2DIMM 2R)	
<b>Expansion</b>	PCIe slot	SLOT7: PCIe4.0 x4 [CPU] SLOT6: PCIe5.0 x16 <sup>Note1</sup> [CPU] SLOT4: PCIe5.0 x8 <sup>Note1</sup> [CPU] SLOT2: PCIe4.0 x4 [PCH]	SLOT7: PCIe4.0 x4 [CPU] SLOT6: PCIe5.0 x16 <sup>Note1</sup> [CPU] SLOT4: PCIe5.0 x8 <sup>Note1</sup> [CPU]
<b>Storage</b>	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	
<b>Network</b>	RJ45	4 RJ45 (1GbE) by Intel® i210	
<b>Management</b>	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
<b>I/O</b>	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)	
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules	

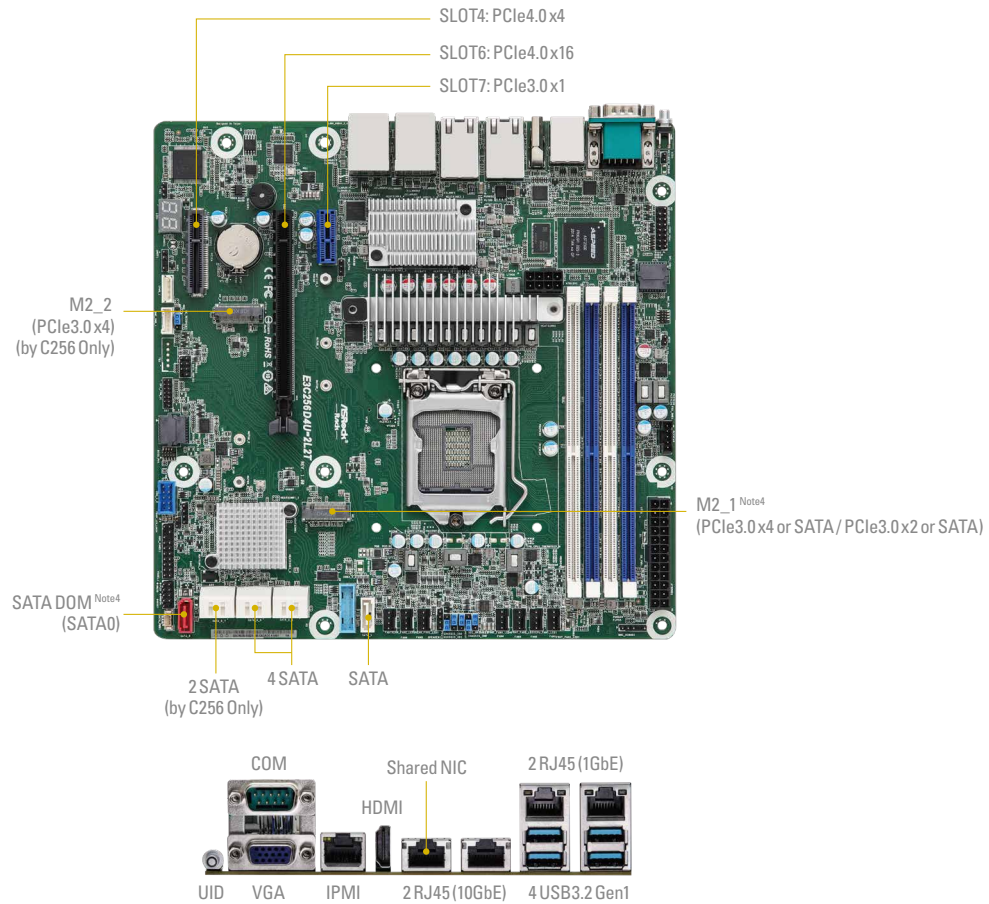
Note1: SLOT4 share lanes with SLOT6. SLOT6 will switch to x8 when SLOT4 is populated.



# 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
<b>Form Factor</b>		Micro-ATX (9.6" x 9.6" )			
<b>Processor System</b>	CPU	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors			
	PCH	Intel® C256		Intel® C252	
<b>Memory</b>	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/non-ECC UDIMM up to 32GB each, max. 3200MHz Note1			
<b>Expansion</b>	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]		
<b>Storage</b>	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	
<b>Network</b>	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		
<b>Management</b>	BMC	ASPEED AST2500 : IPMI 2.0			
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E			
<b>I/O</b>	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			
<b>Security</b>	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

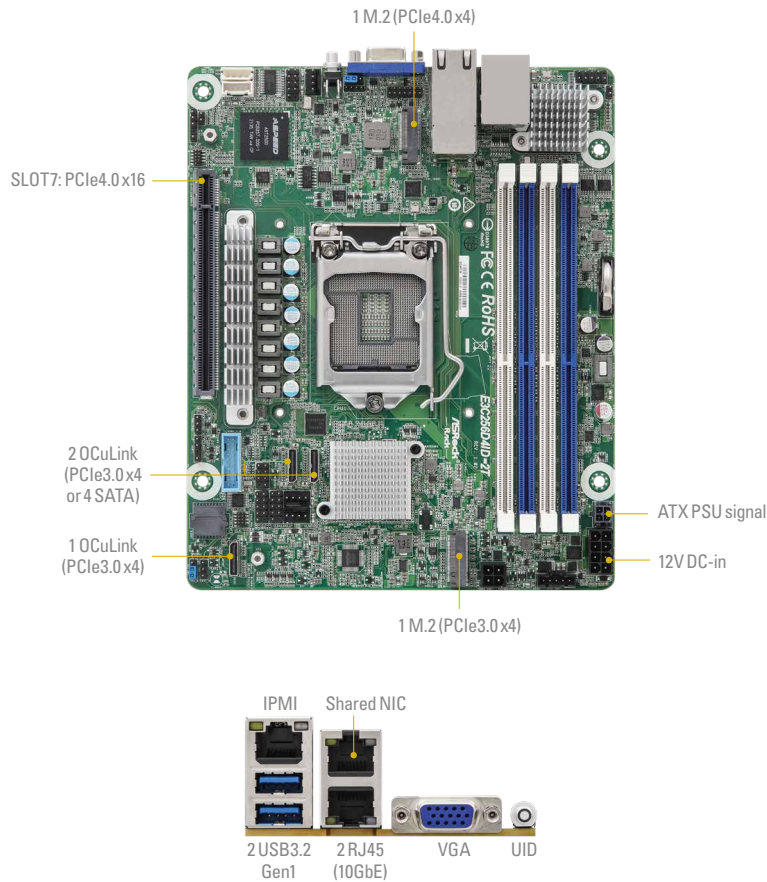
Note3: SLOT4 will not function when installing 10th Gen Intel® Pentium® Series Processors

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
<b>Power source</b>		Supports ATX PSU or 12V DC-in		
<b>Form Factor</b>		Deep mini-ITX (6.7" x 8.2")		
<b>Processor System</b>	CPU	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors		
	PCH	Intel® C256	Intel® C252	Intel® C256
<b>Memory</b>	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/ non-ECC UDIMM up to 32GB each, max. 3200MHz <sup>Note1</sup>		
<b>Expansion</b>	PCIe slot	SLOT7: PCIe4.0 x16 <sup>Note2</sup> [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]
<b>Storage</b>	M.2	1 M-key <sup>Note3</sup> (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
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2		
<b>Management</b>	BMC	ASPEED AST2500 : IPMI 2.0		
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E		
<b>I/O</b>	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header		
	COM port	9-pin header		
<b>Security</b>	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



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



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

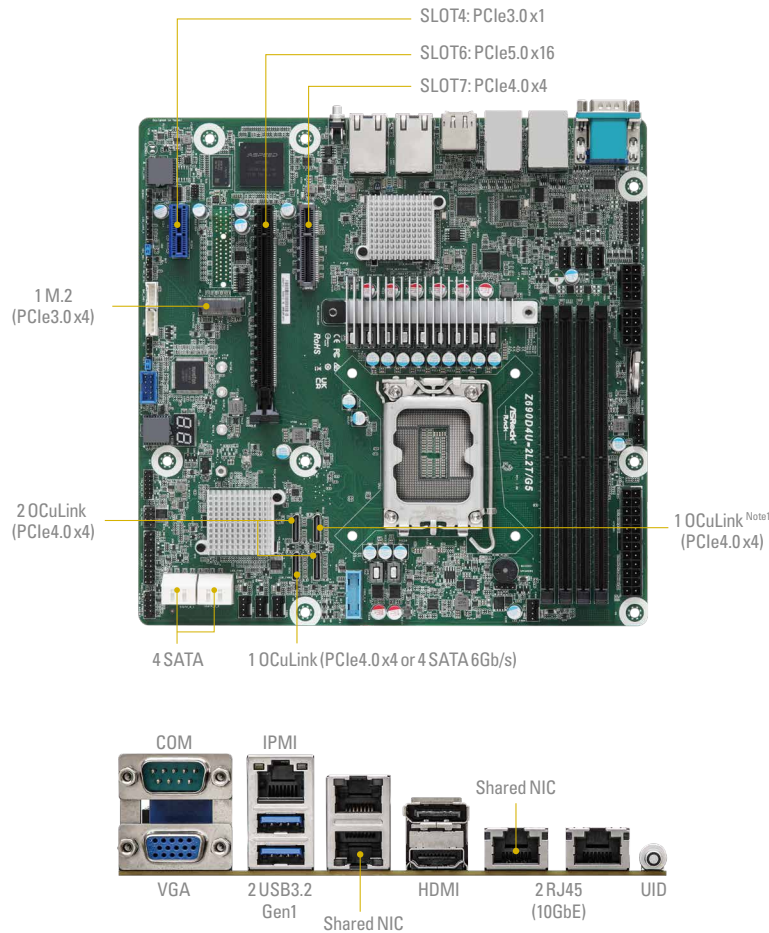
Note1: SLOT7 supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

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



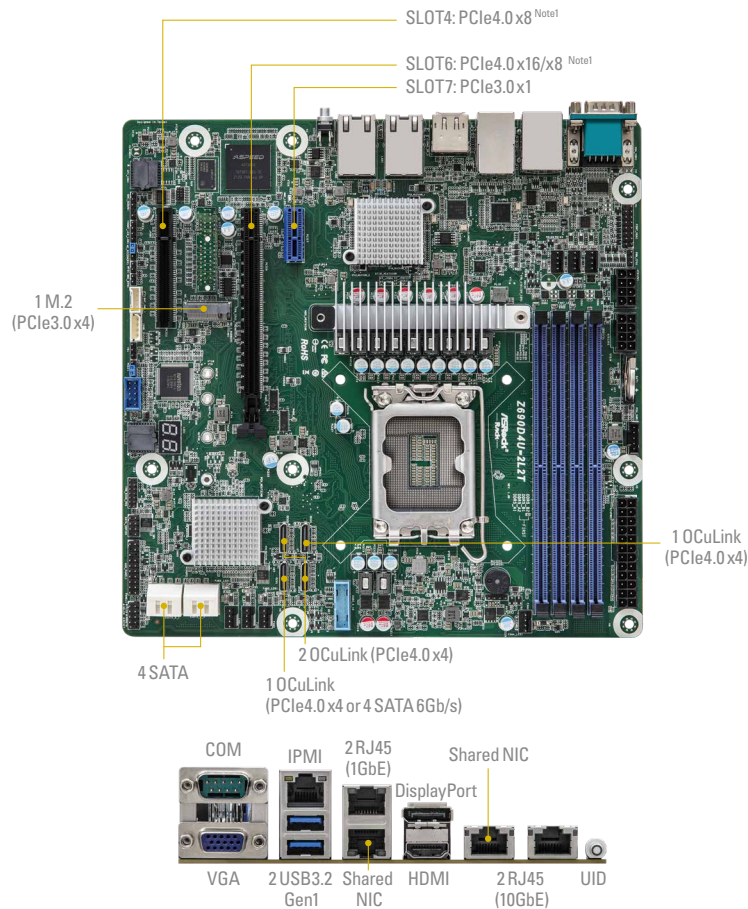
		Z690D4U-2L2T/G5	W680D4U-2L2T/G5
<b>Form Factor</b>		Micro-ATX (9.6" x 9.6")	
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™, Pentium® and Celeron® series processors O.C.	1 Socket (LGA1700); Supports Intel® Core™ 14 <sup>th</sup> Gen, 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™ series processors
	PCH	Intel® Z690	Intel® W680
<b>Memory</b>	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	SLOT7: PCIe4.0 x4 [CPU] SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe3.0 x1 [PCH]	
<b>Expansion</b>	Others	1 OCuLink <sup>Note1</sup> (PCIe4.0 x4) [CPU] 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 2 OCuLink (PCIe4.0 x4) [PCH]	
	M.2	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [PCH]	
<b>Storage</b>	SATA port	8 SATA 6Gb/s: 4 SATA 7-pin, 1 OCuLink	
	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210	
<b>Network</b>			
	BMC	ASPEED AST2600	
<b>Management</b>	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	
<b>I/O</b>	COM port	1 rear DB9	
	Video	1 DisplayPort, 1 HDMI, 1 DB15 (VGA)	
	TPM	Supports 13-pin (SPI) TPM modules	

Note1: OCuLink4 shares lanes with SLOT7 and will be disabled when SLOT7 is populated.

# Z690D4U-2L2T

Z690D4U W680D4U-2L2T W680D4U

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



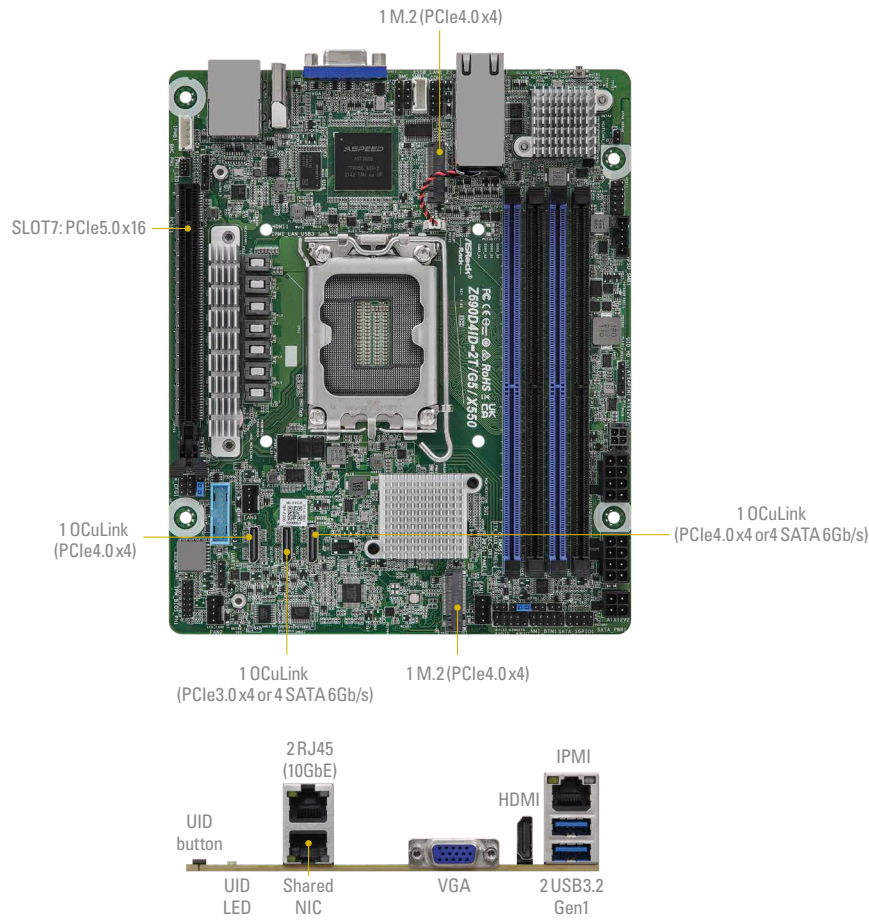
		Z690D4U-2L2T	Z690D4U	W680D4U-2L2T	W680D4U
<b>Form Factor</b>		Micro-ATX (9.6" x 9.6")			
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™, Pentium® and Celeron® series processors O.C		1 Socket (LGA1700); Supports Intel® Core™ 14 <sup>th</sup> Gen, 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™ series processors	
	PCH	Intel® Z690		Intel® W680	
<b>Memory</b>	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	SLOT7: PCIe3.0 x1 [PCH] SLOT6: PCIe4.0 x16 <sup>Note1</sup> [CPU] SLOT4: PCIe4.0 x8 <sup>Note1</sup> [CPU]			
<b>Expansion</b>	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	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [PCH] 8 SATA 6Gb/s: 4 SATA 7-pin, 1 OCuLink			
<b>Network</b>	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
	Management	BMC	ASPEED AST2600		
<b>I/O</b>	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			
	COM port	1 rear DB9			
	Video	1 DisplayPort, 1 HDMI, 1 DB15 (VGA)			
<b>Security</b>	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



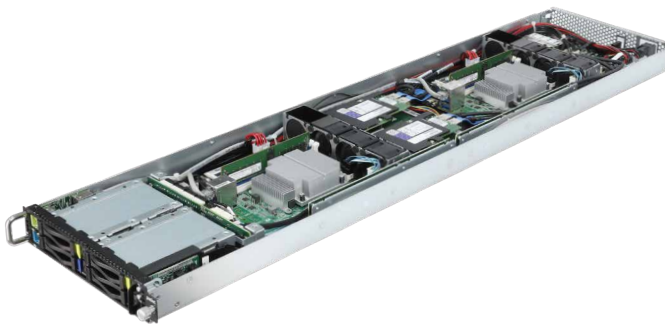
		Z690D4ID-2T/G5/X550	W680D4ID-2T/G5/X550
<b>Form Factor</b>		Deep mini-ITX (6.7" x 8.2")	
<b>Processor System</b>	CPU	1 Socket (LGA1700); Supports 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™, Pentium® and Celeron® series processors O.C	1 Socket (LGA1700); Supports Intel® Core™ 14 <sup>th</sup> Gen, 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™ series processors
	PCH	Intel® Z690	
<b>Memory</b>	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	
<b>Storage</b>	M.2	SLO7: 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]	
	SATA port	1 M-key (PCIe4.0 x4); support 2280 form factor [CPU] 1 M-key (PCIe4.0 x4); support 2280 form factor [PCH] 8 SATA 6Gb/s: 2 OCuLink	
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Intel® X550	
<b>Management</b>	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
<b>I/O</b>	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	
<b>Security</b>	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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