



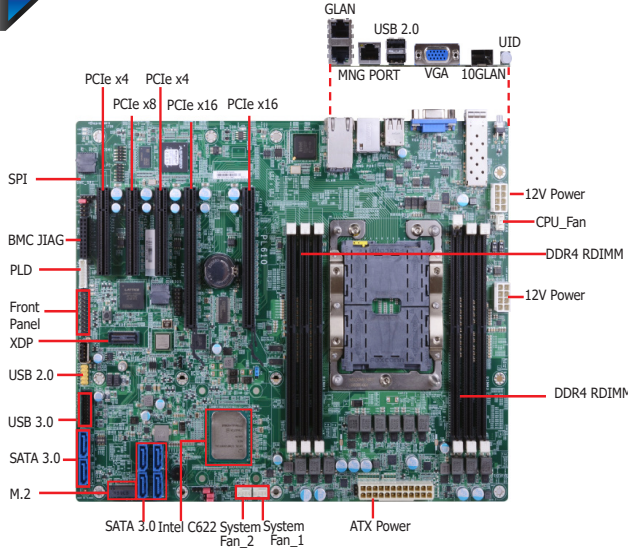
**Intel® Xeon® Scalable Processor Family  
ATX**



**PL610-C622**

Server-grade

C622

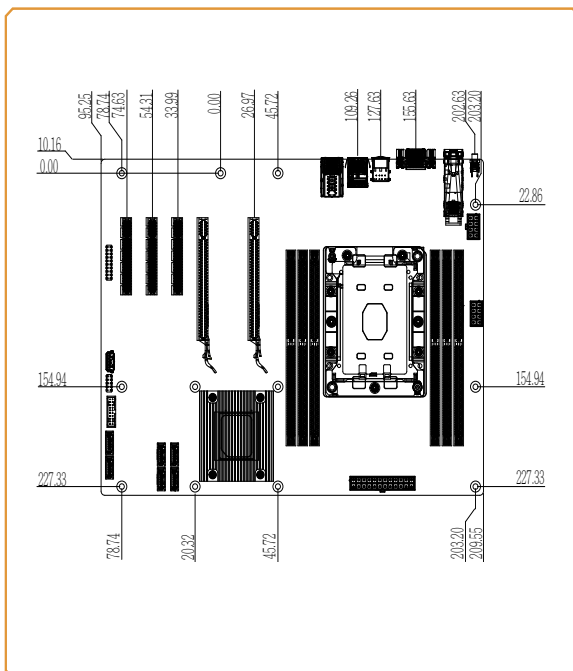


**Features**

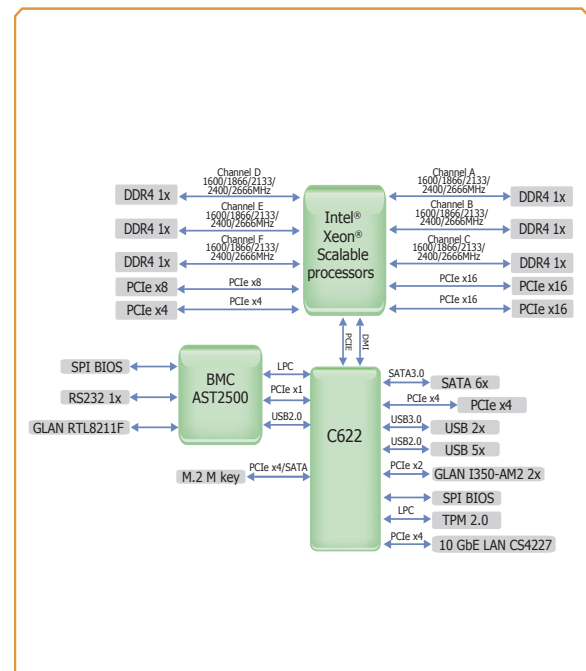
- 6 DDR4 RDIMM up to 192GB
- VGA resolution up to 1920x1200 @ 60Hz
- Multiple expansion:  
2 PCIe x16, 1 PCIe x8, 2 PCIe x4, 1 M.2
- Rich I/O: 2 Intel GbE, 1 dedicated IPMI LAN, 1x Fiber 10 GbE, 1 COM, 6 SATA 3.0, 5 USB 2.0, 2 USB 3.0



**Mechanical Drawing**



**Block Diagram**





**Specifications**

<b>SYSTEM</b>	<b>Processor</b>	Intel® Xeon® Scalable Processor Family, LGA 3647 Socket, TDP up to 145W Intel® Xeon® Gold 6138T (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6138 (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6130T (16 Cores, 22M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6130 (16 Cores, 22M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6126T (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6126 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 5120T (14 Cores, 19.25M Cache, up to 3.2 GHz); 105W Intel® Xeon® Gold 5119T (14 Cores, 19.25M Cache, up to 3.2 GHz); 85W Intel® Xeon® Gold 5118 (12 Cores, 16.5M Cache, up to 3.2 GHz); 105W Intel® Xeon® Silver 4116T (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4116 (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4114T (10 Cores, 13.75M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4110 (8 Cores, 11M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4109T (8 Cores, 11M Cache, up to 3.0 GHz); 70W Intel® Xeon® Bronze 3106 (8 Cores, 11M Cache, 1.7 GHz); 85W		
	<b>Chipset</b>	Intel® C622 Chipset		
	<b>Memory</b>	Six 288-pin RDIMM up to 192GB	Single Channel DDR4	1600/1866/2133/2400/2666MHz
	<b>BIOS</b>	Insyde SPI 128Mbit		
	<b>Display</b>	1 x VGA		
<b>GRAPHICS</b>	<b>Single Displays</b>	VGA		
	<b>Interface</b>	2 x PCIe x16 (Gen 3) 1 x PCIe x8 (Gen 3) 2 x PCIe x4 (Gen 3) 1 x M.2 2280 M key (PCIe Gen3 x 4 NVMe/SATA)		
<b>EXPANSION</b>	<b>Audio Codec</b>	N/A		
<b>AUDIO</b>	<b>Controller</b>	GbE: i350-AM2 10GbE: CS4227 IPMI: RTL8211F		
<b>ETHERNET</b>	<b>Ethernet</b>	2 x GbE (RJ-45) 1 x dedicated IPMI LAN 1x Fiber 10 GbE		
	<b>USB</b>	2 x USB 2.0		
	<b>PS/2</b>	1 x PS/2 (mini-DIN-6)		
	<b>Display</b>	1 x VGA		
<b>REAR I/O</b>	<b>Serial</b>	1 x RS-232 (2.54mm pitch)		
	<b>USB</b>	2 x USB 2.0 (2.54mm pitch) 1 x Vertical USB 2.0 2 x USB 3.0		
	<b>SATA</b>	6 x SATA 3.0 (up to 6Gb/s)	RAID 0/1/5/10	
	<b>SMBus</b>	1 x SMBus		
	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds		
<b>WATCHDOG TIMER</b>	<b>TPM</b>	Infineon TPM2.0 (optional)		
<b>SECURITY</b>	<b>Type</b>	ATX		
<b>POWER</b>	<b>Connector</b>	8-pin ATX 12V power	24-pin ATX power	
	<b>Consumption</b>	TBD		
	<b>RTC Battery</b>	CR2032 Coin Cell		
	<b>OS SUPPORT</b>	Windows 10 IoT Enterprise LTSB RS1(64-bit) Windows Server 2012R2 Windows Server 2016 Linux		
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: 0 to 60°C	Storage: -40 to 85°C	
	<b>Humidity</b>	Operating: 5 to 90% RH	Storage: 5 to 90% RH	
	<b>MTBF</b>	TBD		
<b>MECHANICAL</b>	<b>Dimensions</b>	ATX Form Factor	305mm (12") x 244mm (9.6")	
	<b>Height</b>	PCB: TBD	Top Side: TBD mm Bottom Side: TBD	

**Ordering Information**

Model Name	P/N	10GbE	GbE	RS-232/422/485	RS-232	USB 3.0	USB 2.0	Thermal	Temp.
PL610-C622BI	770-PL6101-000G	1	2	0	1	2	5	Cooler	0~60°C

**Packing List**

• 1 PL610-C622 motherboard	
• 1 I/O shield	A49-PL6100-000G
• 1 M.2 screw	A32-112016-041G
• 1 CPU clip	348-436471-100G

**Optional Items**

• Serial ATA cable (Length: 500mm)	332-553001-005G
• USB 2.0 port cable (Length: 350mm)	A81-001066-016G
• USB 3.0 port cable (Length: 320mm)	A81-001052-023G
• LGA3647 cooler	A71-101400-000G

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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