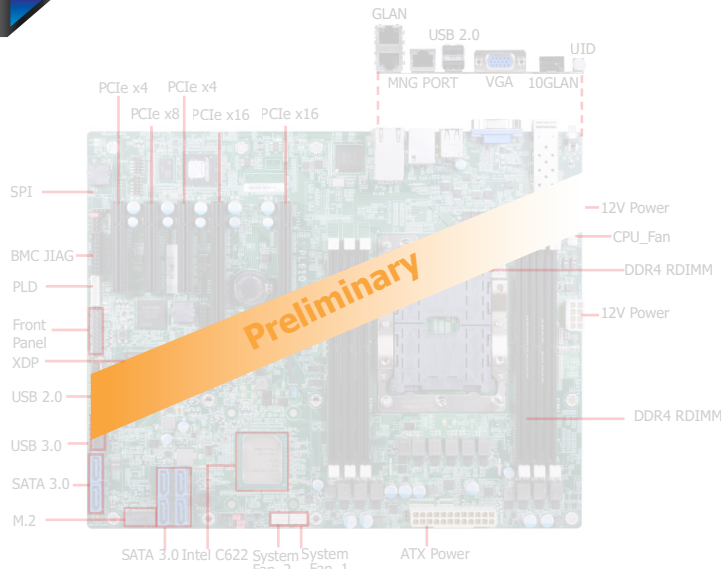


PR810-C622

Server-grade

C622

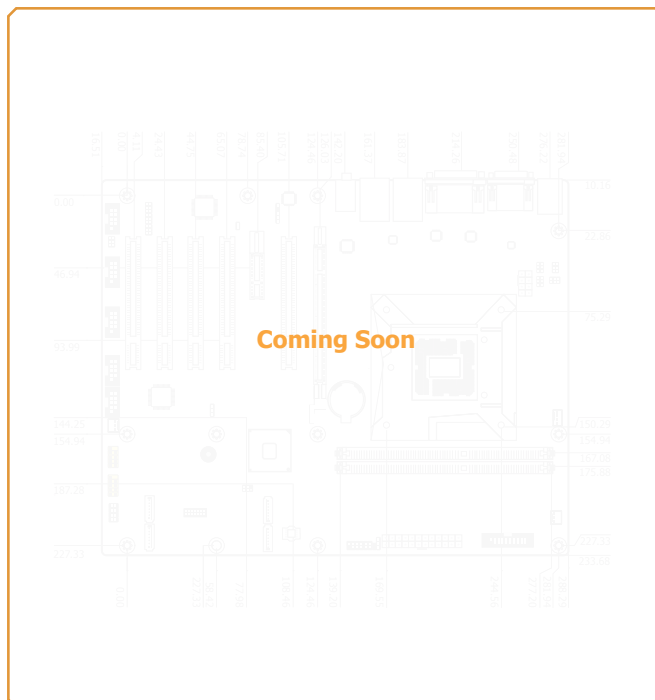


Features

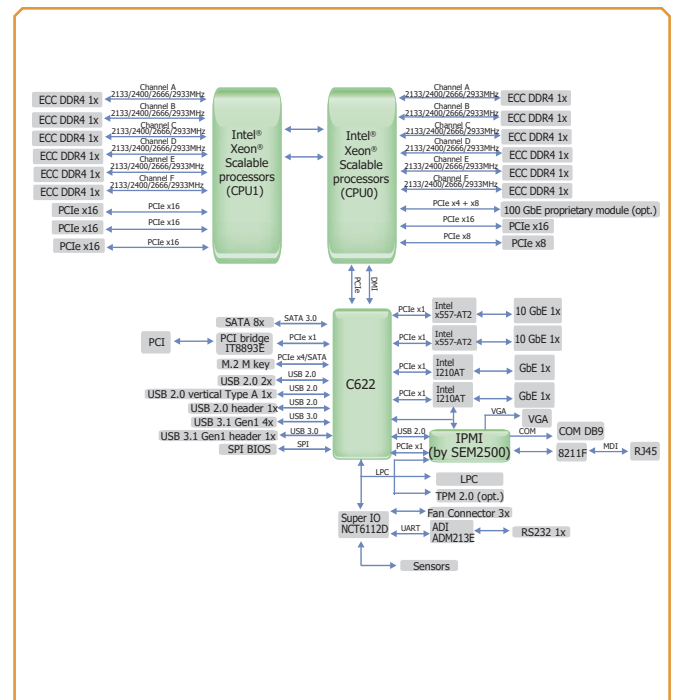
- 12 DDR4 RDIMM up to 384GB
- VGA resolution up to 1920x1200 @ 60Hz
- Multiple expansion: 4 PCIe x16, 1 PCIe x8, 1 PCI, 1 M.2
- Rich I/O: 2 Intel GbE, 2 COM, 8 SATA 3, 5 USB 2.0, 6 USB 3.1 Gen1



Mechanical Drawing



Block Diagram



Specifications

SYSTEM	Processor	Intel® 1st/2nd Xeon® Scalable Processor Family, LGA 3647 Socket, TDP up to 165W	
	Chipset	Intel® C622 Chipset	
	Memory	12 x 288-pin RDIMM up to 384GB	Single Channel DDR4 up to 2133/2400/2666/2933 MHZ (Support Intel DC Persistent Memory)
	BIOS	Insyde	
GRAPHICS	Display	1 x VGA (opt.)	
	Single Displays	VGA (opt.)	
EXPANSION	Interface	4 x PCIe x16 (Gen 3) 1 x PCIe x8 (Gen 3) 1 x PCI 1 x DDR4 SO-DIMM for SEM2500/2510 (IPMI) 1 x 100GbE slot (x4 + x8) for EXT-100GbE proprietary module	
AUDIO	Audio Codec	ALC887	
ETHERNET	Controller	2 x Intel® I210AT (10/100/1000Mbps), 1 x Intel x557-AT2 (10GbE)	
REAR I/O	Ethernet	2 x GbE (RJ-45) 2 x 10 GbE x557-AT2 IPMI 2.0: 1 share w/ i210AT (opt.)	
	USB	4x USB 3.1 Gen1 2x USB 2.0 stack (opt.w/ RJ45+USB2.0 stack)	
	Display	1 x VGA (opt.)	
INTERNAL I/O	Serial	2 x RS-232 (DB-9)	
	USB	1 x USB 2.0 header (2x USB 2.0) 1 x USB 2.0 vertical Type A 1 x USB 3.1 Gen1 header (2x USB 3.1 Gen1)	
	SATA	8 x SATA 3 (up to 6Gb/s) RAID 0/1/5/10	
	M.2	1 M.2 M key2280 (PCIe Gen3 x4 NVMe/SATA)	
	SMBus	1 x SMBus	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 sec/Min	
SECURITY	TPM	TPM 2.0 (opt.)	
POWER	Type	ATX	
	Connector	8-pin ATX 12V power	24-pin ATX power
	Consumption	TBD	
OS SUPPORT	RTC Battery	CR2032 Coin Cell	
		Windows 10 IoT Enterprise LTSB RS5(64-bit) Windows Server 2016 Ubuntu18.04	
ENVIRONMENT	Temperature	Operating: 0 to 40°C	Storage: TBD
	Humidity	Operating: TBD	Storage: TBD
	MTBF	TBD	
MECHANICAL	Dimensions	EATX Form Factor	305mm (12") x 330mm (13")
	Height	PCB: TBD	Top Side: TBD mm Bottom Side: TBD

Ordering Information

Model Name	P/N	GbE	RS-232	USB 3.1 Gen1	USB 2.0	VGA	BMC Module	Thermal	Temp.
PR810-C622	770-PR8101-200G	2	1	6	5	1	SEM2500-VGA/IPMI	cooler	0~40°C
PR810-C622	770-PR8101-100G	2	1	6	5	1	SEM2500-VGA	cooler	0~40°C
PR810-C622	770-PR8101-000G	2	1	6	5	0	0	cooler	0~40°C

Packing List

• 1 PR810-C622 motherboard	
• 1 Serial ATA data cable (Length: 500mm)	332-553001-005G
• 1 I/O shield	TBD
• 1 M.2 screw for 2280	A32-112016-041G
• 1 M.2 standoff	A33-725019-090G

Optional Items

• USB 2.0 port cable (Length: 350mm)	A81-001066-016G
• SATA cable (Length: 500mm)	332-553001-005G
• USB 3.1 Gen1 cable (Length: 320mm)	A81-001052-023G