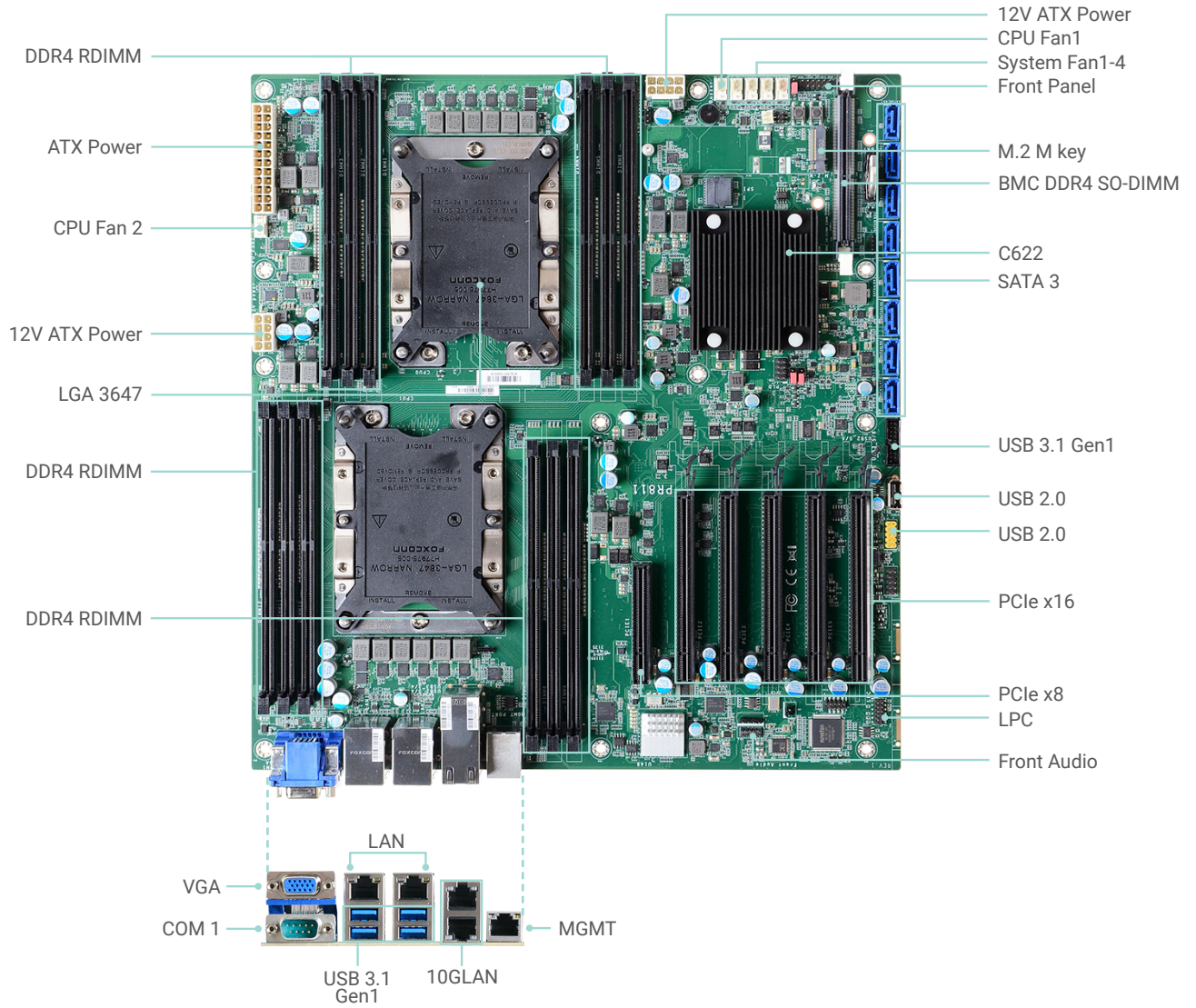


PR811-C622 Server-grade

1st/2nd Gen Intel® Xeon® Scalable Processor Family

EATX



Top View

KEY FEATURES



DDR4

12 DDR4 RDIMM up to 384GB



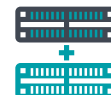
10GLAN

2 x 10GbE



Single Display

VGA: resolution up to 1920x1200 @ 60Hz



Multiple Expansion

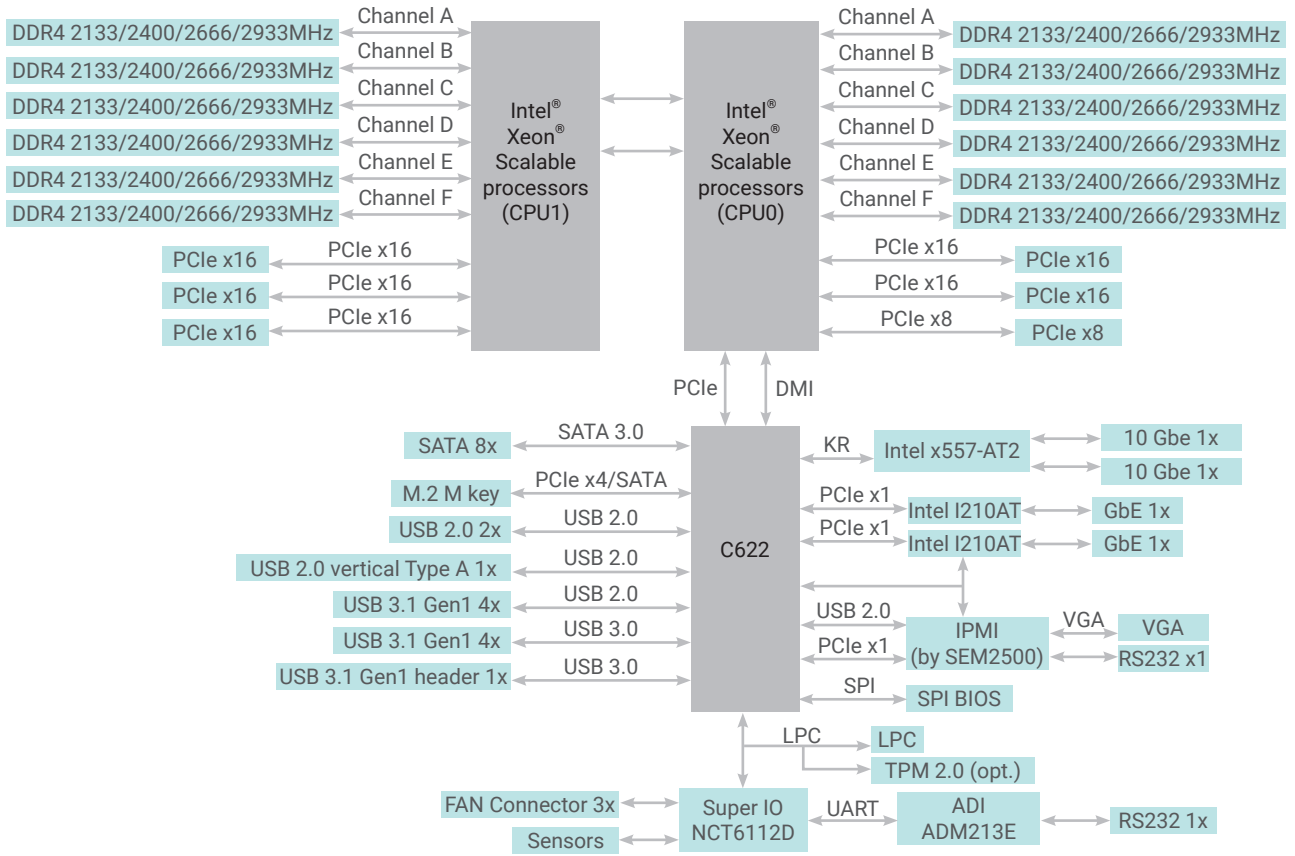
5 PCIe x16 (Gen3),
1 x PCIe x8 (Gen 3),
1 M.2 M key,
1 x BMC Module slot for SEM2500/2510 (IPMI)



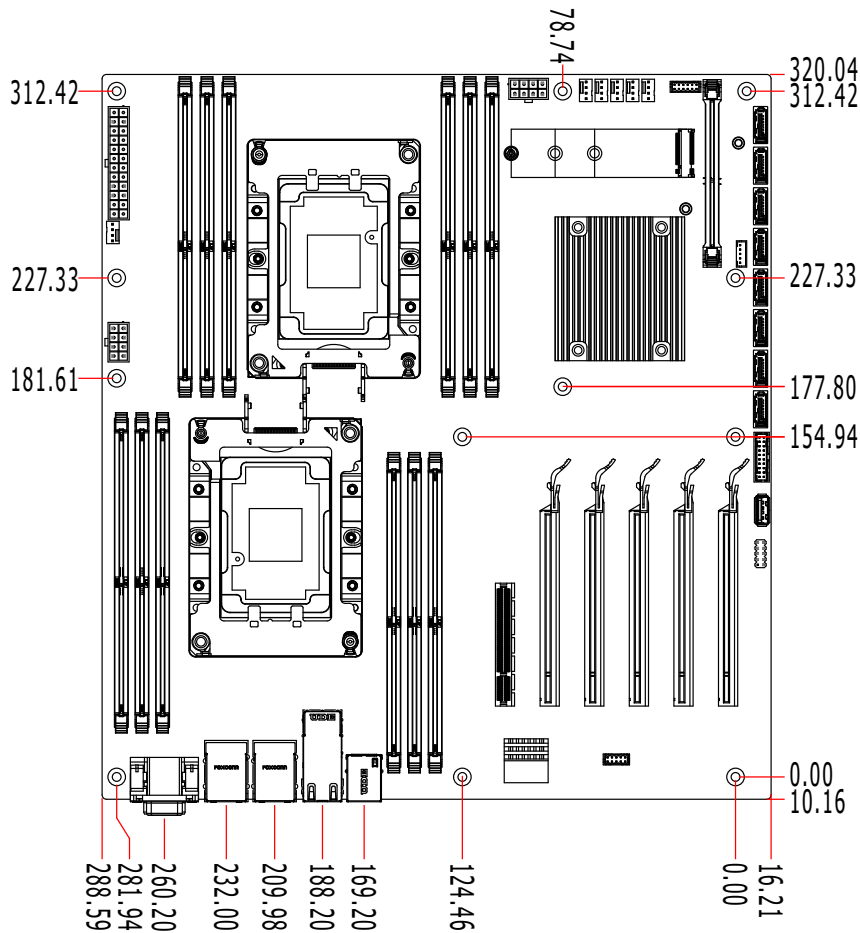
Rich I/O

2 Intel 10GbE, 2 Intel GbE, 2 COM, 8 SATA 3.0, 6 USB 3.1 Gen1, 5 USB 2.0

BLOCK DIAGRAM



MECHANICAL DRAWING



SPECIFICATION

SYSTEM	Processor	1st Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket: Intel® Xeon® Platinum 8160T (24 Cores, 27.5M Cache, up to 3.7 GHz); 150W 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 2nd Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket: Intel® Xeon® Gold 6252N (24 Cores, 35.75M Cache, up to 3.6 GHz); 150W Intel® Xeon® Gold 6238T (22 Cores, 30.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6230T (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W Intel® Xeon® Gold 6230N (20 Cores, 27.5M Cache, up to 3.5 GHz); 125W Intel® Xeon® Gold 6230 (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W Intel® Xeon® Gold 6226 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 5220T (18 Cores, 24.75M Cache, up to 3.9 GHz); 105W Intel® Xeon® Gold 5218T (16 Cores, 22M Cache, up to 3.8 GHz); 105W Intel® Xeon® Gold 5218N (16 Cores, 22M Cache, up to 3.7 GHz); 110W Intel® Xeon® Gold 5215 (10 Cores, 13.75M Cache, up to 3.4 GHz); 85W Intel® Xeon® Silver 4216 (16 Cores, 22M Cache, up to 3.2 GHz); 100W Intel® Xeon® Silver 4215 (8 Cores, 11M Cache, up to 3.5 GHz); 85W Intel® Xeon® Silver 4214 (12 Cores, 16.5M Cache, up to 3.2 GHz); 85W Intel® Xeon® Silver 4210 (10 Cores, 13.75M Cache, up to 3.2 GHz); 85W Intel® Xeon® Silver 4209 (8 Cores, 11M Cache, up to 3.2 GHz); 70W		
	Chipset	Intel® C622 Chipset		
	Memory	12 x 288-pin RDIMM up to 384GB	Single Channel DDR4 2133/2400/2666/2933 MHZ (Support Intel DC Persistent Memory)	
	BIOS	Insyde		
	GRAPHICS	Display	1 x VGA (opt.)	
	Single Display	VGA (opt.)		
EXPANSION	Interface	5 x PCIe x16 (Gen 3) 1 x PCIe x8 (Gen 3) 1 x M.2 2280 M key (PCIe Gen3 x4 NVMe/SATA) 1 x BMC Module slot for SEM2500/2510 (IPMI)		
	Audio Codec	ALC887		
AUDIO	Controller	2 x Intel® I210AT (10/100/1000Mbps) 1 x Intel® x557-AT2 (10GbE)		
ETHERNET	Serial	1x RS-232 (DB-9)		
	Ethernet	2 x GbE (RJ-45) 2 x 10 GbE x557-AT2	IPMI 2.0: 1 share w/ I210AT (opt.)	
	USB	4 x USB 3.1 Gen1	2 x USB 2.0 stack (opt.w/ RJ45 + USB2.0 stack)	
	Display	1 x VGA (opt.)		
INTERNAL I/O	Serial	1 x RS-232		
	USB	2 x USB 3.1 Gen1 2 x USB 2.0 1 x USB 2.0 Vertical Type A		
	SATA	8 x SATA 3 (up to 6Gb/s)	RAID 0/1/5/10	
	SMBus	1 x SMBus		
	WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	TPM 2.0 (opt.)		
POWER	Type	ATX		
	Connector	8-pin ATX 12V power	24-pin ATX power	
	Consumption	TBD		
	RTC Battery	CR2032 Coin Cell		
OS SUPPORT		Windows 10 IoT Enterprise LTSB RS5(64-bit) Windows Server 2019 Windows Server 2016	Linux	
ENVIRONMENT	Temperature	Operating: 0 to 40°C	Storage: -40 to 85°C	
	Humidity	Operating: 5 to 90% RH	Storage: 5 to 90% RH	
	MTBF	TBD		
MECHANICAL	Dimensions	EATX Form Factor	305mm (12") x 330mm (13")	
	Height	PCB: TBD	Top Side: TBD mm Bottom Side: TBD	

PACKING LIST

1 PR811-C622 motherboard	
1 I/O shield	TBD
1 M.2 screw for 2280	A32-112016-041G
1 CPU clip	348-436471-100G
1 SEM 2500/2510 (by orderd P/N)	TBD

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
Cooler (Narrow ILM LGA 3647)	A71-101400-000G