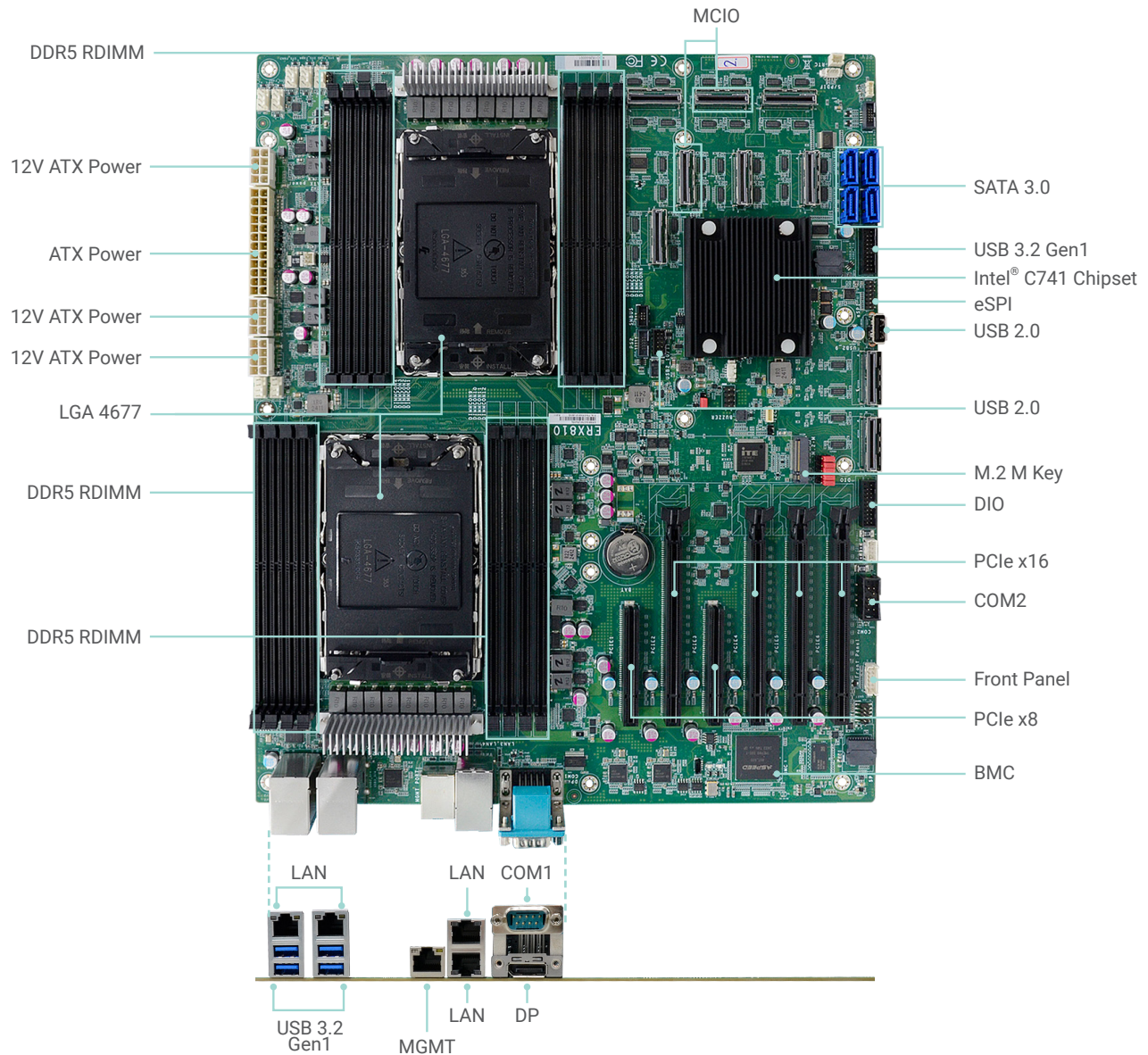


ERX810-C741

5th/4th Gen Intel® Xeon® Scalable Family

Server-grade



Top View

KEY FEATURES



DDR5

16 DDR5 ECC-RDIMM
up to 2048GB



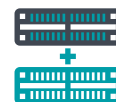
Single Display

DP



Support IPMI/Redfish

OOB Remote
Management



Multiple Expansion

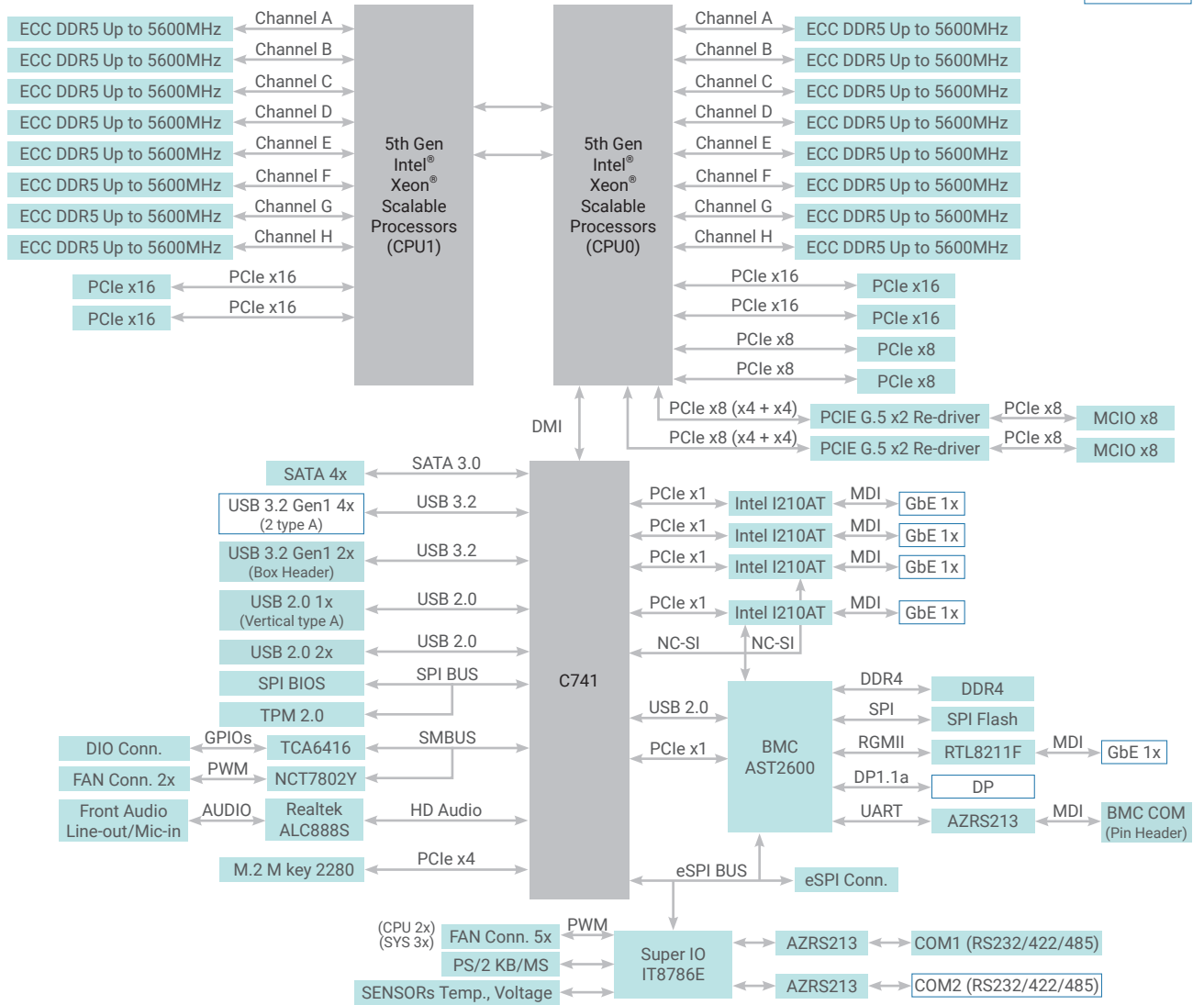
4 PCIe x16 (Gen 5),
2 PCIe x8 (Gen5),
1 M.2 M key 2280



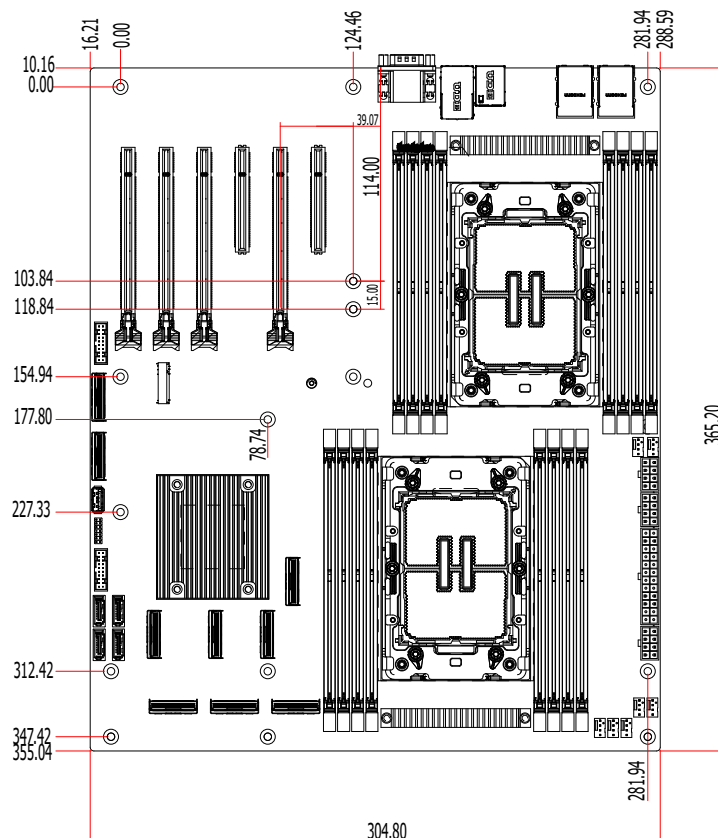
Rich I/O

4 Intel® GbE, 4 SATA 3.0,
6 USB 3.2, 2 USB 2.0,
1 Vertical USB 2.0, 2 COM
1 Dedicated IPMI

BLOCK DIAGRAM



MECHANICAL DRAWING



SPECIFICATION

SYSTEM	Processor	5th Generation Intel® Xeon® Scalable Processor Family, LGA 4677 Socket, TDP upto 270W: Intel® Xeon® Gold 6548Y+ Processor (32 Cores, 60 MB Cache, up to 4.1 GHz); 250W Intel® Xeon® Gold 6548N Processor (32 Cores, 60 MB Cache, up to 4.1 GHz); 250W Intel® Xeon® Gold 6538N Processor (32 Cores, 60 MB Cache, up to 4.1 GHz); 205W Intel® Xeon® Gold 6530 Processor (32 Cores, 160 MB Cache, up to 4 GHz); 270W Intel® Xeon® Gold 6526Y Processor (16 Cores, 37.5 MB Cache, up to 3.9 GHz); 195W Intel® Xeon® Gold 5520+ Processor (28 Cores, 52.5 MB Cache, up to 4 GHz); 205W Intel® Xeon® Gold 5515+ Processor (8 Cores, 22.5 MB Cache, up to 4.1 GHz); 165W Intel® Xeon® Silver 4516Y+ Processor (24 Cores, 45 MB Cache, up to 3.7 GHz); 185W Intel® Xeon® Silver 4514Y Processor (16 Cores, 30 MB Cache, up to 3.4 GHz); 150W Intel® Xeon® Silver 4510 Processor (12 Cores, 30 MB Cache, up to 4.1 GHz); 150W Intel® Xeon® Silver 4510T Processor (12 Cores, 30 MB Cache, up to 3.7 GHz); 115W Intel® Xeon® Silver 4509Y Processor (8 Cores, 22.5 MB Cache, up to 4.1 GHz); 125W 4th Generation Intel® Xeon® Scalable Processor Family, LGA 4677 Socket, TDP upto 270W: Intel® Xeon® Gold 6448Y Processor (32 Cores, 60 MB Cache, up to 4.10 GHz); 225W Intel® Xeon® Gold 6438N Processor (32 Cores, 60 MB Cache, up to 3.60 GHz); 205W Intel® Xeon® Gold 6430 Processor (32 Cores, 60 MB Cache, up to 3.40 GHz); 270W Intel® Xeon® Gold 6428N Processor (32 Cores, 60 MB Cache, up to 3.80 GHz); 185W Intel® Xeon® Gold 6426Y Processor (16 Cores, 37.5 MB Cache, up to 4.10 GHz); 185W Intel® Xeon® Gold 6418H Processor (24 Cores, 60 MB Cache, up to 4.00 GHz); 185W Intel® Xeon® Gold 5420+ Processor (28 Cores, 52.5 MB Cache, up to 4.10 GHz); 205W Intel® Xeon® Gold 5418N Processor (24 Cores, 45 MB Cache, up to 3.80 GHz); 165W Intel® Xeon® Gold 5418Y Processor (24 Cores, 45 MB Cache, up to 3.80 GHz); 185W Intel® Xeon® Gold 5415+ Processor (8 Cores, 22.5 MB Cache, up to 4.10 GHz); 150W Intel® Xeon® Silver 4416+ Processor (20 Cores, 37.5 MB Cache, up to 3.90 GHz); 165W Intel® Xeon® Silver 4410T Processor (10 Cores, 26.25 MB Cache, up to 4.00 GHz); 150W Intel® Xeon® Silver 4410Y Processor (12 Cores, 30 MB Cache, up to 3.90 GHz); 150W	
	Chipset	Intel® C741 Chipset	
	Memory	16 x ECC-RDIMM up to 2048GB DDR5 Max. 5600MHz	
	BIOS	Insyde	
	Controller	BMC AST2600	
GRAPHICS	Display	1 x DP	
	Single Display	DP	
EXPANSION	Interface	4 x PCIe x16 (Gen 5) 2 x PCIe x8 (Gen5) 1 x M.2 M key 2280	
	Audio Codec	ALC888S	
AUDIO	Controller	4 x Intel® I210	
ETHERNET		IPMI: RTL8211F	
REAR I/O	Serial	1 x RS-232/422/485 (DB-9)	
	Ethernet	4 x GbE 1 x Dedicated IPMI LAN	
	USB	4 x USB 3.2 Gen1	
	Display	1 x DP	
	PS/2	1 x PS/2	
INTERNAL I/O	Serial	1 x RS-232/422/485	
	USB	2 x USB 3.2 Gen1 2 x USB 2.0 1 x Vertical USB 2.0	
	Audio	1 x Front Audio	
	DIO	16-bit DIO	
	LPC	1 x LPC	
	SATA	4 x SATA 3.0 RAID 0/1/5/10	
	SMBus	1 x SMBus	
	MCIO	2 x MCIO	
SECURITY	TPM	TPM 2.0	
POWER	Type	ATX	
ENVIRONMENT	Temperature	Operating: 0 to 45°C	
MECHANICAL	Dimensions	305 x 365 mm	
	Height	PCB: TBD	Top Side: TBD Bottom Side: TBD
CERTIFICATION	Certification	CE, FCC, RoHS, UKCA	

PACKING LIST

• ERX810-C741 Motherboard	770-ERX8101-000G
• 1 M.2 screw	A32-112016-041G
• 1 M.2 standoff	A33-725019-090G
• 1 IO Shield	A49-ERX810-000G
• 1 Serial ATA data cable (Length: 500mm)	332-553001-005G
• 2 COOLER CARRIER	A51-099027-000G

OPTIONAL ITEMS

• CPU COOLER, LGA 4677 118*82*106mm	A71-101164-000G
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