GRW610-W890

6th Generation Intel® Xeon® W Family
Server-grade
EATX

IoT Solutions Alliance



Top View

KEY FEATURES

DDR5

8 DDR5 ECC-RDIMM up to 1024GB

Single Display

DP

Support IPMI/Redfish

OOB Remote Management

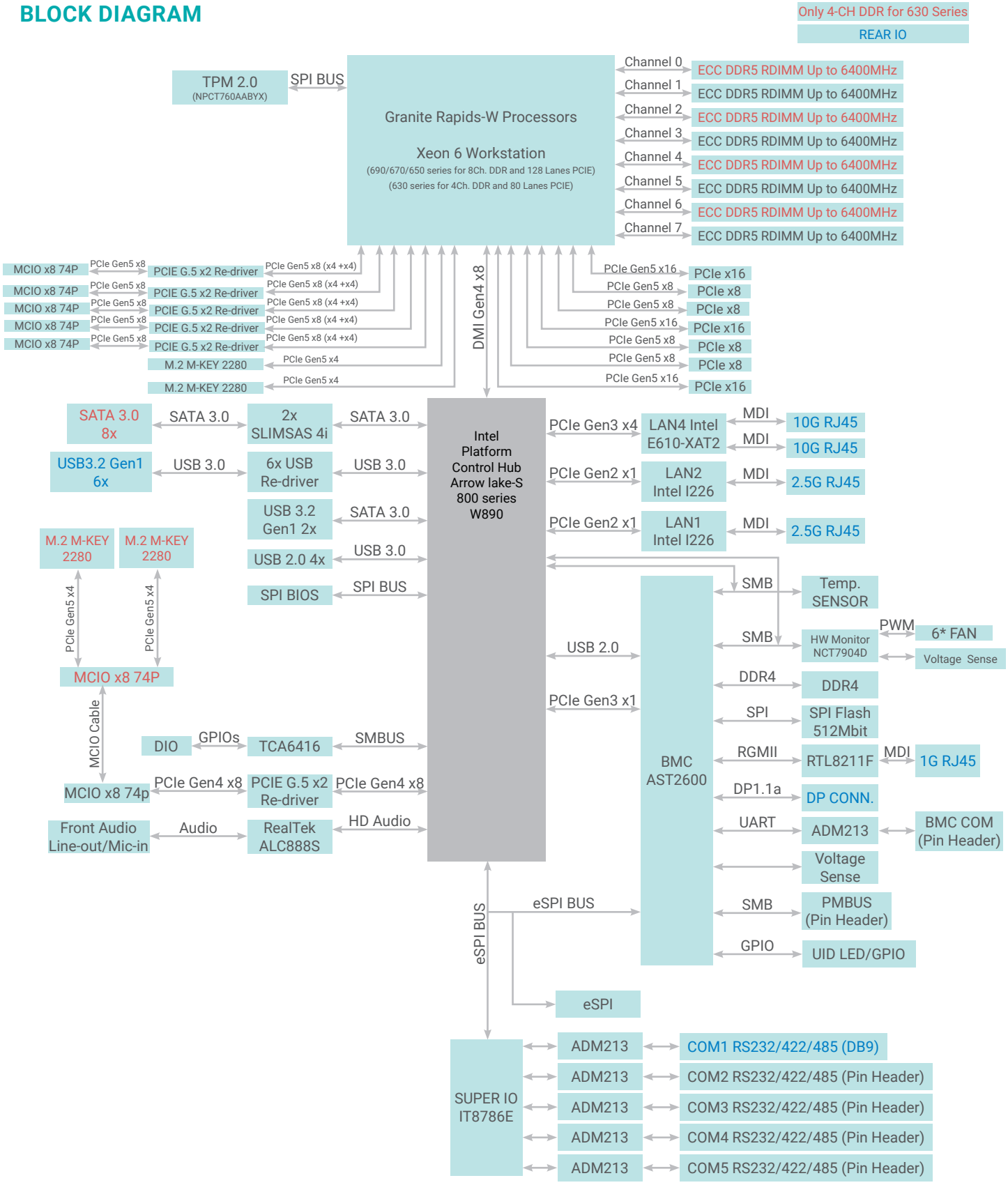
Multiple Expansion

3 PCIe x16 (Gen5),
4 PCIe x8 (Gen5),
2 M.2 M key 2280

Rich I/O

2 2.5GbE + 2 10GbE,
8 SATA 3.0 via 2 SlimSAS,
8 USB 3.2, 2 USB 2.0,
1 Vertical USB 2.0, 7 COM
1 Dedicated IPMI

BLOCK DIAGRAM



SPECIFICATION

SYSTEM	**Processor**	6th Generation Intel® Xeon® W Family, LGA4710 Socket, TDP upto 350W: Intel® Xeon® 696X Processor (64 Cores, 336 MB Cache, up to 4.8 GHz); 350W Intel® Xeon® 674X Processor(28 Cores, 144 MB Cache, up to 4.9 GHz); 270W Intel® Xeon® 658X Processor(24 Cores, 144 MB Cache, up to 4.9 GHz); 250W Intel® Xeon® 634 Processor (12 Cores, 48 MB Cache, up to 4.6 GHz); 150W
	Chipset	Intel® W890 Chipset
	Memory	8 x ECC-RDIMM up to 1024GB (630 series only support 4 dimms up to 512GB) DDR5 Max. 6400MHz
	BIOS	Insyde
GRAPHICS	**Controller**	BMC AST2600
	Display	1 x DP
	Single Display	DP
EXPANSION	**Interface**	3 x PCIe x16 (Gen5) 4 x PCIe x8 (Gen5) (630 seires no support #2) 2 x M.2 M key 2280
AUDIO	**Audio Codec**	ALC888S
ETHERNET	**Controller**	2 x Intel® I226V + 2 x Intel® E610-XAT2 IPMI: RTL8211F
REAR I/O	**Serial**	1 x RS-232/422/485 (DB-9)
	Ethernet	2 x 2.5GbE + 2 x 10GbE 1 x Dedicated IPMI LAN
	USB	6 x USB 3.2 Gen1
	Display	1 x DP
INTERNAL I/O	**Serial**	4 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
	SATA	8 x SATA 3.0 via 2 x SlimSAS RAID 0/1/5/10
	PMBUS	1 x PMBUS
	UID	UID-LED header
	MCIO	6 x MCIO
	Fan	1 x CPU fan + 5 x System fan
SECURITY	**TPM**	TPM 2.0
POWER	**Type**	ATX
ENVIRONMENT	**Temperature**	Operating: 0 to 60°C
MECHANICAL	**Dimensions**	305 x 330mm
	Height	PCB: TBD Top Side: TBD Bottom Side: TBD
CERTIFICATION	**Certification**	CE, FCC, RoHS, UKCA

PACKING LIST

• GRW610-W890 Motherboard	770-GRW6101-000G
• 2 M.2 screw	A32-112016-041G
• 2 M.2 standoff	A33-725019-090G
• 1 IO Shield	A49-GRW610-000G
• 1 Serial ATA data cable (Length: 500mm)	332-553001-005G
• 1 COOLER CARRIER	

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