



Penguin Solutions Relion XE5318GTO

8x Instinct MI300X CDNA 3 rack

OVERVIEW

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Peak Dense	Aggregate Memory	Aggregate Bandwidth	Aggregate Power

CONFIGURATION

Accelerator	Instinct MI300X 192GB
Count	8
Memory per GPU	192 GB
Bandwidth per GPU	5.3 TB/s

POWER & EFFICIENCY

Aggregate Power	—
TDP per GPU	750 W
Efficiency	—
Aggregate Bandwidth	—

SYSTEM DETAILS

Vendor: Penguin Solutions	Family: Relion	Architecture: CDNA 3
Form Factor: rack	Release Year: —	Process Node: 5nm FinFET

INTERCONNECT

Penguin publishes no interconnect figure; expansion is 12x PCIe Gen5 x16

NOTES

The Penguin Solutions Relion XE5318GTO is a 5U GPU server carrying eight AMD Instinct MI300X OAM modules of 192 GB each, hosted by 5th and 4th Gen Intel Xeon Scalable processors with 12x PCIe Gen5 x16. An Intel-hosted MI300X machine, which is an unusual pairing and the reason Penguin lists both host families against the same accelerator. Penguin publishes only rack height, host processor, expansion slots and the accelerator for its servers, so no power draw, total memory, interconnect bandwidth or throughput figure is shown here; its full datasheets are hosted off its own domain and were not used as a source.