

Rebellions RebelRack

32x Rebel100

REBEL

rack

OVERVIEW

65.5 FP8 PFLOPS Dense	4.6 TB Aggregate Memory	153.6 TB/s Aggregate Bandwidth	28.0 kW Aggregate Power
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PERFORMANCE METRICS

Precision	Peak (PFLOPS)	Per GPU (TFLOPS)	TFLOPS/W
FP16	32.8	1024.0	—
FP8	65.5	2048.0	—

All figures are dense. Vendors commonly headline the sparse number, which is twice the dense one.

CONFIGURATION

Accelerator	Rebel100
Count	32
Memory per GPU	144 GB
Bandwidth per GPU	4.8 TB/s

POWER & EFFICIENCY

Aggregate Power	28.0 kW
TDP per GPU	600 W
FP8 Efficiency	2.34 TFLOPS/W
Aggregate Bandwidth	153.6 TB/s

SYSTEM DETAILS

Vendor: Rebellions	Family: Rebel	Architecture: REBEL
Form Factor: rack	Release Year: —	Process Node: 4nm

INTERCONNECT

Backend fabric 400G QSFP112-DD; frontend network 25G SFP28

NOTES

A 42U rack of four RebelServers holding 32 Rebel100 cards, rated by Rebellions at 65.5 PFLOPS FP8 and 32.7 PFLOPS FP16, with 4.61 TB of HBM3E at 153.6 TB/s and 6 TB of DDR5 across eight AMD EPYC 9355 processors totalling 256 cores and 512 threads. It draws up to 28 kW and rejects 105,094 BTU/hour at maximum, in a 600 by 1200 mm footprint weighing about 351 kg unpackaged. Figures here are the exact products of the per-card specification, which reconcile to Rebellions' printed 65.5 and 32.7. All figures are dense: Rebellions labels the Rebel100 compute "Compute (Dense)" and publishes no sparse rate.