Point of comparison	The human brain	HGX A100 system
the required number of units to simulate a human brain	1 human brain	1.555 million unit of HGX A100
Energy	highly energy-efficient system	still very far efficient than the brain
Power consumption	20 Watts	5.65 GW
capability of complex cognitive tasks	capable of complex cognitive tasks such as creativity, imagination, and emotion	currently beyond the reach of deep learning models.
Weight	1.37 kg for male and 1.2 kg for female	780 million kg
Parallelism	massively parallel system, with many neurons working together to process information	modern GPUs are highly parallel as well, but they still operate on a different scale than the brain.
ability to generalize and learn from small amounts of data.	highly specialized and flexible system that can adapt and learn in response to new information and able to learn from small amount of data	The current models are still limited in their ability to generalize and learn from small amounts of data.
Total cost	Gift from Allah	1372 billion USD
portability	portable	Nearly impossible