

Spark NGB10D1



Tyrone Spark, a compact desktop AI supercomputer powered by the GB10 Grace-Blackwell Superchip, delivering up to 1 PetaFLOP of AI performance with 128GB unified memory



Key Feature

- NVIDIA Grace Blackwell Architecture with GB10 Grace-Blackwell Superchip
- Unified CPU+GPU memory simplifies AI workflows
- Up to 1 petaFLOP (1,000 TFLOPS) AI throughput
- Inbuilt NVIDIA DGX OS
- Datacenter-class AI performance on desktop
- Ideal for AI engineers, researchers, and developers



Connectivity

Achieves decisive lead in critical 6G bands.



Thermal Stability

Significantly lower core component temperatures in all stress tests



AI Performance

Better performance in NVIDIA's official benchmarks.



Design Philosophy

Achieves the best balance of performance, cost, and practicality.

Processor

- Supports GB10 Grace Blackwell Superchip having 20-core Arm architecture
 - 10 x Cortex-X925 high-performance cores
 - 10 x Cortex-A725 efficiency cores

System Memory:

- System Memory : 128GB LPDDR5x, Unified System Memory
- Memory Interface : 256 Bit

Storage

- 1TB/4TB NVMe M.2 with Self Encryption

Ports

- 2 x NVIDIA ConnectX-7 ports for high-speed networking(QSFP 200GbE)
- 1 X RJ45 10GbE port
- 1 x HDMI 2.1a display port (Multi Channel Audio Output)
- 3 X USB 3.2 Type C ports (Upto 20 Gb/s)
- 1 X USB Type C power port
- 1 X Power Button
- Inbuilt Wi-Fi 7
- Inbuilt Bluetooth 5.4

Power Supply

- System Power 240W with C Type Power Port

Form Factor

- System Weight : 1.2Kg
- Dimensions : 151mm(W) x 52mm(H) x 151mm(D)

Driving Next-Generation AI Innovation at the Edge

Intelligent Transportation Systems

- Traffic flow optimization
- Smart intersections & signals
- Video analytics for road safety
- Urban mobility intelligence

FinTech & Financial Analytics

- Fraud detection & AI/ML
- Algorithmic trading
- Risk & portfolio analytics
- AI-driven forecasting

Healthcare & Life Sciences

- Genomics & sequence analysis
- Medical imaging AI
- Drug discovery & simulation
- Clinical AI research

Ports, Railways & Infrastructure Operations

- Predictive maintenance of assets
- Port & yard optimization
- Railway safety monitoring
- Airport operations analytics

Ordering Information

- NGB10D1-1T Tyrone Spark with 1TB Storage
- NGB10D1-4T Tyrone Spark with 4TB Storage