



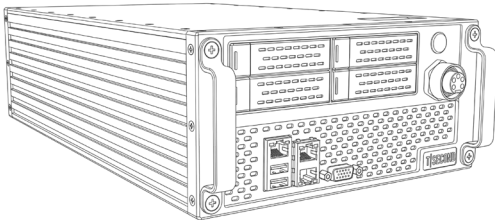
# BRYCK Turbo HPC

## Ruggedized High Performance Edge AI Flyaway Kit

BRYCK TURBO HPC IS A RUGGED SYSTEM FOR HIGH-PERFORMANCE TACTICAL AI COMPUTING IN DEFENSE AND EDGE DEPLOYMENTS.

### SPECIFICATIONS

STORAGE CAPACITY	512TB (4X BRYCK BLOCKS)
MEMORY	UP TO 2TB
CPU	UP TO 144 INTEL® XEON® CORES
GPU	NVIDIA L4 GPU, NVIDIA RTX 4000
POWER	UP TO 500W
DATA ACCESS THROUGHPUT (NETWORK)	1000GB/s
ENCRYPTION	TPM 2.0
WEIGHT	13lbs



Fault-Tolerant Storage

Rugged Tactical Design

Accelerated AI Workloads

Ships with Tsecond's BRYCK OS

<b>HYPERCONVERGED ARCHITECTURE</b>	Integrated compute and NVMe storage in a single small form-factor system
<b>VALIDATED MISSION RELIABILITY</b>	TAA compliant and built in the USA for sensitive government and defense sectors
<b>DATA PROTECTION FROM HARDWARE FAILURE AND CORRUPTION</b>	Supports RAID 5/6 and self-healing, auto data corruption recovery
<b>SUPPORTED AI FRAMEWORKS &amp; MODEL FORMATS</b>	Compatibility with TensorFlow, TensorFlow Lite, Keras, PyTorch models



BRYCK Turbo HPC Front View

LENGTH 14.5" | WIDTH 8.5" | HEIGHT 4.5"

<b>Self-Healing</b>	Automatic fault detection Auto data corruption recovery High availability operations
<b>Integrated GPU Capabilities</b>	NVIDIA GPU acceleration Full OS & software stack support On-device model training & inferencing
<b>Cloud Integration</b>	AWS S3 Support Azure & Google Object Private Cloud Storage

## ENVIRONMENTAL SPECIFICATIONS

COMPLIANCE REGULATIONS



### OPERATING TEMPERATURE

MIL-STD 810F, METHOD 501.5 PROCEDURES 1/II, -15°C TO +55°C

### STORAGE TEMPERATURE

MIL-STD 810F, METHOD 501.5 PROCEDURES 1/II, -15°C TO +55°C

### OPERATING HUMIDITY

MIL-STD 810F, METHOD 507.4, 95% RH, 48 HOURS AT 40-65°C

### VIBRATION

MIL-STD 810G, METHOD 514.6; 4.43 GRMS, 5-20000HZ, 60 MIN/AXIS

### SHOCK

MIL-STD 810G, METHOD 516.6: 20G, 11MS FUNCTIONAL, 40G, 11MS CRASH HAZARD

## INTEGRATIONS

BRYCK Turbo HPC supports up to four BRYCK Blocks, enabling high-performance NVMe SSD expansion and seamless integration across edge and core systems.

### BRYCK Block Features

Upto 128TB Storage Capacity

Fault-tolerant U.2 SSD

Plug-and-Play Storage Boost



Integration with BRYCK Block