



BRYCK CUBE

High Performance Storage for Aircraft and Ground Vehicles

BRYCK CUBE

BRYCK CUBE is a rugged, compact, and high-performance Edge platform combining compute and high capacity storage in a single, portable device. The CUBE is purpose built for airborne and ground mobile environments. Housed in a Small Form Factor-4 (SFF-4) ATR-style enclosure, it is standards based with CMOS, OpenVPX, VPX, REDI, and CompactPCI support. Robust conduction cooling, shock and vibration resistance, up to 3 slots and a 200W military-grade power supply (28 VDC input) make it an ideal solution to bring the power of Edge storage to where the action is.

Product Specification

■ HARDWARE SPECIFICATION

Storage configuration	Up to 256 TB storage
CPU Memory	20 cores (x86 architecture) 64 GB
Network	10 Gbps
Interface	MIL-grade Circular connectors
Ports	2x 10GbE 2x 1GbE
Dimensions (W x H x D)	6.00" x 7.62" x 7.00"
Weight	15 lbs
Encryption	256 Bit, FIPS-140-3
Power	28 VDC nominal (22-33 VDC continuous) 200 W 28 VDC power supply compliant to MIL-STD-704F & MIL-STD-1275

■ ENVIRONMENTAL SPECIFICATIONS

Operating

Temperature: -40°C to 71°C

Humidity: 10-90% Relative Humidity

Altitude: 0-30,000 Feet Above Sea Level

Shock/ Vibration: 40g, 11ms

(MIL-STD-810 ground vehicle and propeller aircraft methods)

Non-Operating (Storage)

Temperature: -55°C to 105°C

■ DESIGNED TO CONFORM TO COMPLIANCE

STANDARDS

MIL-STD 810G

EMI/EMC: Designed to meet MIL-STD-461E CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103

Flammability Rating: UL94-V0

FCC Class A

CE Safety & Emissions

UL, cUL,

RoHS3

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Technical Specification

DATA STORAGE

- NFS | SMB | BRYCKCP | SRT | S3
- Direct attached I/O
- Fast data transfer
- Data Protection
- Self-healing
- Auto data corruption recovery
- Data protection from hardware component failure

DATA SECURITY

- AES 256-bit data encryption
- Tamper-resistant
- Hardware encryption
- Automated key management

MANAGEMENT

- Web Dashboards
- EST APIs for 3rd party integration
- Native support for Ansible, Elastic, TAK, Ditto and many more

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T|SECOND

Tsecond is a defense tech company specializing in Mission-Critical, low SWaP Edge AI and Storage Infrastructure. Our expertise lies in unifying AI inferencing, petabyte-scale storage, and secure data movement in air-gapped and DDIL environments. Our patented technologies empower organizations to process and infer vast amounts of data with unmatched capacity, security, resilience and speed.

Trusted by industry leaders like Boeing, Picture Shop, Be4Post, Madison Square Garden Entertainment and the government & defense sectors in the USA and India, Tsecond has the right form factor solutions from drones and UAVs to large aircraft carriers.

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