



Data Sheet

x8 STORAGE

x8 STORAGE is a removable mass Storage device with up to 96 Gbit/s sustained write performance for BRICK2 and DATAlynx ATX4 measurement and recording systems.

A PCI Express 4.0 x8 host connection enables maximum data throughput for recording applications. PCI Express switch technology combined with datacenter SSD architecture secures highest reliability and performance stability.

x8 STORAGE is part of the b-plus AVETO Toolbox, see www.b-plus.com for more details.

Highlights

- Removable device for simple data handling
- Compact and robust design for harsh environment
- Hot-plug supported

- NVMe RAID system
- 32 to 96 Gbit/s sustained write
- Massive Storage capacity up to 60 TB
- Encryption acc. TCG OPAL 2.01 prepared

- Status indicator for diagnostics
- Simple OS based device management
- Integrated μ Controller based SIODI system management for save operation



x8 STORAGE – E1.S Gen4



Rear view with R7B Power Connector, BRICK/DATALynx PCIe 4.0 x8 Interface and 2x USB-C



Features

Host Interface	b-plus STORAGE Interface, PCIe 4.0 x8
Architecture	PCIe 4.0 switch
Exchangeability	Hot-swap supported at BRICK2 & ATX4 with b-plus SIODI Service 3.17 or newer Hot-plug supported at BRICK2 with BIOS BCL6R969 or newer Hot-plug supported at DATAlynx ATX4
Stand-alone operation	2x USB-C data interface, PCIe 3.0 x4 (requires host system with TB3 interface) up to 20 Gbit/s read/write via USB-C Daisy chain support 12V R7B Power Connector
System compatibility	All BRICK2 configurations All DATAlynx ATX4 configurations with Add-on B2S or 8S4 COPYlynx G7 K4, COPYlynx ATX4
OS compatibility	Windows 10 / 11, Ubuntu 18.04 / 20.04 / 22.04
RAID Management	via OS disc management, recommended RAID0 / Striped Volume
Encryption	TCG Storage Security Subsystem Class: Opal Rev 2.01
Housing	Solid aluminum housing, top and bottom part with direct attached SSD
Cooling	passive cooling, controlled airflow from host system
Non-operating temperature	-40°C to +85°C
Relative Humidity	maximum 90 %, non-condensing
Dimensions	280 mm (W) x 248 mm (D) x 22 mm (H)
Weight	2.1 kg

Specifications

Part Number	B17102-8S4-101-015T	B17102-8S4-101-030T	B17102-8S4-101-060T
Part Name	x8 STORAGE	x8 STORAGE	x8 STORAGE
Part Description	15T 844 M74 – E1.S Gen4	30T 844 M74 – E1.S Gen4	60T 844 M74 – E1.S Gen4
Capacity	15.36 TB 13.97 TiB	30.72 TB 27.94 TiB	61.44 TB 55.88 TiB
E1.S NVMe SSD	8x 1.92 TB	8x 3.84 TB	8x 7.68 TB
Sustained Write	96 Gbit/s @ ATX4 PCIe4 48 Gbit/s @ ATX4 PCIe3 32 Gbit/s @ BRICK2	96 Gbit/s @ ATX4 PCIe4 48 Gbit/s @ ATX4 PCIe3 32 Gbit/s @ BRICK2	96 Gbit/s @ ATX4 PCIe4 48 Gbit/s @ ATX4 PCIe3 32 Gbit/s @ BRICK2
Operating temperature with sustained performance	-10 to +60°C @ ATX4 -10 to +55°C @ BRICK2	-10 to +60°C @ ATX4 -10 to +55°C @ BRICK2	-10 to +60°C @ ATX4 -10 to +55°C @ BRICK2
Thermal Design Power	121 W	133 W	145 W
Typical Power Consumption	91 W	100 W	109 W
Qualifications	CE, VCCI, FCC, ICES	CE, VCCI, FCC, ICES	CE, VCCI, FCC, ICES
Certifications	REACH, RoHS, China RoHS	REACH, RoHS, China RoHS	REACH, RoHS, China RoHS