



Data Sheet

x8 STORAGE - Gen4 E1.S

The x8 STORAGE – Gen4 E1.S is a removable NVMe based mass storage device with 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 - Gen4 E1.S is part of the b-plus AD Validation Toolbox, see www.b-plus.com for more details.

Highlights

- Removable device for simple data handling
- Compact and robust design for harsh environment
- Software guided hot-swap & hot-plug support

- NVMe JBOF array
- up to 96 Gbit/s sustained write performance
- up to 112 Gbit/s peak performance
- Massive storage capacity up to 120 TB
- Encryption ready acc. TCG OPAL 2.01

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



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



Features

Host interface	b-plus xSTORAGE Interface, PCIe 4.0 x8
RAID Controller	PCIe 4.0 Switch architecture
Bandwidth	RAID0: sustained: 96 Gbit/s, peak: 112 Gbit/s
Exchangeability	Hardware triggered and software guided hot-swap & hot-plug support
Hardware compatibility	BRICK2, DATAlynx ATX4 with Add-on B2S, COPYlynx G7 K4/K5, COPYlynx ATX4 , Thunder Dock x8, TB3-x8 Adapter
OS compatibility	Windows 10 / 11, Ubuntu 20.04 / 22.04 with Kernel 6.x
RAID Management	Windows/Linux: LDM dynamic disk, compatible to Linux with SIODI Service Linux only: multiple disk administration (MDADM) RAID
Encryption	TCG Storage Security Subsystem Class: Opal Rev 2.01 License for b-plus Encryption Manager: included and pre-activated
Housing	Solid aluminum housing, top and bottom part with directly attached SSD
Cooling	Passive cooling, controlled airflow from host system required
Non-operating temperature	-40 °C to +85 °C
Relative Humidity	Maximum 90 %, non-condensing
Dimensions	280 mm (W), 248 mm (D), 22 mm (H)
Weight	2.1 kg

Specifications

Part number	B17102-8S4-101-XXXX	B17102-8S4-103-XXXX	B17102-8S4-104-XXXX
Part name	x8 STORAGE – Gen4 E1.S	x8 STORAGE – Gen4 E1.S	x8 STORAGE Gen4 E1.S
Part description	<ul style="list-style-type: none"> ■ 015T: 15T 844 M74 ■ 030T: 30T 844 M74 ■ 060T: 60T 844 M74 	<ul style="list-style-type: none"> ■ 030T: 30T 844 EE4 ■ 060T: 60T 844 EE4 ■ 120T: 120T 844 EE4 	<ul style="list-style-type: none"> ■ 030T: 30T 844 E14 ■ 060T: 60T 844 E14
Capacity (8x E1.S PCIe 4.0 x2)	<ul style="list-style-type: none"> ■ 015T: 15.36 TB / 13.97 TiB ■ 030T: 30.72 TB / 27.94 TiB ■ 060T: 61.44 TB / 55.88 TiB 	<ul style="list-style-type: none"> ■ 030T: 30.72 TB / 27.94 TiB ■ 060T: 61.44 TB / 55.88 TiB ■ 120T: 122.88 TB / 111.76 TiB 	<ul style="list-style-type: none"> ■ 030T: 30.72 TB / 27.94 TiB ■ 060T: 61.44 TB / 55.88 TiB
SSD	<ul style="list-style-type: none"> ■ 015T: 8x 1.92 TB ■ 030T: 8x 3.84 TB ■ 060T: 8x 7.68 TB 	<ul style="list-style-type: none"> ■ 030T: 8x 3.84 TB ■ 060T: 8x 7.68 TB ■ 120T: 8x 15.36 TB 	<ul style="list-style-type: none"> ■ 030T: 8x 3.84 TB ■ 060T: 8x 7.68 TB
Endurance @ 1 DWPD	64 months	36 months	36 months
Operating temperature with sustained performance	-10 °C to +60 °C @ ATX4 -10 °C to +55 °C @ BRICK2	-10 °C to +60 °C	-20 °C to +70 °C
Power consumption Thermal design power / Typical	<ul style="list-style-type: none"> ■ 015T: 131 W / 99 W ■ 030T: 143 W / 108 W ■ 060T: 155 W / 117 W 	<ul style="list-style-type: none"> ■ 030T: 131 W / 99 W ■ 060T: 131 W / 99 W ■ 120T: 131 W / 99 W 	<ul style="list-style-type: none"> ■ 030T: 131 W / 99 W ■ 060T: 131 W / 99 W
Approvals	Prototype only	CE, FCC, VCCI REACH, RoHS	CE, FCC, VCCI REACH, RoHS