



## Data Sheet

# x8 STORAGE - Gen3 E1.S

The x8 STORAGE – Gen3 E1.S, formerly known as ‘BRICK2 STORAGE NVMe’, is a removable NVMe based mass storage device with 48 Gbit/s sustained write performance for BRICK2 and DATAlynx ATX4 measurement and recording systems.

A PCI Express 3.0 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 - Gen3 E1.S is part of the b-plus AD Validation Toolbox, see [www.b-plus.com](http://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 48 Gbit/s sustained write performance
- up to 56 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  $\mu$ Controller based SIODI system management for safe operation



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BRICK2 STORAGE NVMe



## Features

<b>Host interface</b>	b-plus xSTORAGE Interface, PCIe 3.0 x8
<b>RAID Controller</b>	PCIe 3.0 Switch architecture
<b>Bandwidth</b>	RAID0: sustained: 48 Gbit/s, peak: 56 Gbit/s
<b>Exchangeability</b>	Hardware triggered and software guided hot-swap & hot-plug support
<b>Hardware compatibility</b>	BRICK2, DATAlynx ATX4 with Add-on B2S, COPYLynx G7 K4/K5, COPYLynx ATX4 , Thunder Dock x8, TB3-x8 Adapter
<b>OS compatibility</b>	Windows 10 / 11, Ubuntu 20.04 / 22.04 with Kernel 6.x
<b>RAID Management</b>	Windows/Linux: LDM dynamic disk, compatible to Linux with SIODI Service Linux only: multiple disk administration (MDADM) RAID
<b>Encryption</b>	TCG Storage Security Subsystem Class: Opal Rev 2.01 License for b-plus Encryption Manager: optional
<b>Housing</b>	Solid aluminum housing, top and bottom part with directly attached SSD
<b>Cooling</b>	Passive cooling, controlled airflow from host system required
<b>Non-operating temperature</b>	-40 °C to +85 °C
<b>Relative Humidity</b>	Maximum 90 %, non-condensing
<b>Dimensions</b>	280 mm (W), 248 mm (D), 22 mm (H)
<b>Weight</b>	2.1 kg

## Specifications

Part number	B17049-B2S-202-xxxx	B17102-8S3-103-xxxx	B17102-8S3-104-xxxx
Part name	BRICK2 STORAGE NVMe	x8 STORAGE – Gen3 E1.S	x8 STORAGE Gen3 E1.S
<b>Part description</b>	<ul style="list-style-type: none"> <li>■ 015T: 15T 834 M74</li> <li>■ 030T: 30T 834 M74</li> <li>■ 060T: 60T 834 M74</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 15T 434 EE4</li> <li>■ 030T: 30T 834 EE4</li> <li>■ 060T: 60T 834 EE4</li> <li>■ 120T: 120T 834 EE4</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 15T 434 E14</li> <li>■ 030T: 30T 834 E14</li> <li>■ 060T: 60T 834 E14</li> </ul>
<b>Capacity</b>	<ul style="list-style-type: none"> <li>■ 015T: 15.36 TB / 13.97 TiB</li> <li>■ 030T: 30.72 TB / 27.94 TiB</li> <li>■ 060T: 61.44 TB / 55.88 TiB</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 15.36 TB / 13.97 TiB</li> <li>■ 030T: 30.72 TB / 27.94 TiB</li> <li>■ 060T: 61.44 TB / 55.88 TiB</li> <li>■ 120T: 122.88 TB / 111.76 TiB</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 15.36 TB / 13.97 TiB</li> <li>■ 030T: 30.72 TB / 27.94 TiB</li> <li>■ 060T: 61.44 TB / 55.88 TiB</li> </ul>
<b>Drives (8x E1.S PCIe 3.0 x2 Slot)</b>	<ul style="list-style-type: none"> <li>■ 015T: 8x 1.92 TB</li> <li>■ 030T: 8x 3.84 TB</li> <li>■ 060T: 8x 7.68 TB</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 4x 3.84 TB</li> <li>■ 030T: 8x 3.84 TB</li> <li>■ 060T: 8x 7.68 TB</li> <li>■ 120T: 8x 15.36 TB</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 4x 3.84 TB</li> <li>■ 030T: 8x 3.84 TB</li> <li>■ 060T: 8x 7.68 TB</li> </ul>
<b>Endurance @ 1 DWPD</b>	64 months	36 months	36 months
<b>Operating temperature with sustained performance</b>	-10 °C to +60 °C @ ATX4 -10 °C to +55 °C @ BRICK2	-10 °C to +60 °C	-30 °C to +70 °C
<b>Power consumption</b> Thermal design power / Typical	<ul style="list-style-type: none"> <li>■ 015T: 121 W / 91 W</li> <li>■ 030T: 133 W / 100 W</li> <li>■ 060T: 145 W / 109 W</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 73 W / 55 W</li> <li>■ 030T: 121 W / 91 W</li> <li>■ 060T: 121 W / 91 W</li> <li>■ 120T: 121 W / 91 W</li> </ul>	<ul style="list-style-type: none"> <li>■ 015T: 73 W / 55 W</li> <li>■ 030T: 121 W / 91 W</li> <li>■ 060T: 121 W / 91 W</li> </ul>
<b>Approvals</b>	CE, FCC REACH, RoHS	CE, FCC, VCCI REACH, RoHS	CE, FCC, VCCI REACH, RoHS