



Data Sheet

BRICK2 STORAGE NVMe

BRICK2 STORAGE NVMe is a removable mass Storage device up to 48 Gbit/s sustained write performance for BRICK2 and DATAlynx ATX4 measurement and recording systems.

PCI Express 3.0 based host connection for maximum data throughput. PCI Express switch architecture for highest performance and simple OS administration. Future proved server SSD technology

BRICK2 STORAGE NVMe 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
- Operation temperature -10°C to 50°C (55°C)

- NVMe JBoF system up to 48 Gbit/s sustained write
- Massive Storage capacity up to 120 TB*
- Encryption OPAL 2.0 (SEDs) prepared

- Status indicator for easy functional diagnostics
- Simple administration with OS storage device manager
- Integrated in the μ Controller based SIODI system management for save operation

*depends on availability of SSD



BRICK2 STORAGE NVMe



BRICK2 STORAGE NVMe used in BRICK2 and DATAlynx ATX4 Add-on BS2



Features

Host Interface	PCIe 3.0, 8 lanes	
	STORGAE Hot plug	depends on host system
Architecture	PCIe switch architecture	OS direct administrated drive configuration
Storage modules	8 x NVMe SSD	OS based RAID 0 (striped volume) JBoF
Performance	Up to 48 Gbit/s	@ DATAlynx ATX4
	Up to 32 GBit/s	@ BRICK2
Encryption	self-encrypting drives (SEDs) OPAL 2.0 prepared	
Housing	solid aluminum housing, top and bottom part with direct attached SSD for optimized cooling	
Cooling	passive cooling, controlled airflow from host system,	

Specifications

System

Operating System	Windows 10 IoT Enterprise, Ubuntu 20.04	other on request
Administration	b-plus administration tool	integrated b-plus SIODI API

Electrical Specification

Supply Voltage	12V	direct powered from host system
Power consumption	up to 95W	

Environment Specification

operation Temperature	-10°C to +50°C (55°C)	depends on host system
non operation	-40°C to +85°C	
Relative Air Humidity	maximum 90 %, non-condensing	

Mechanical Specification

Dimensions	280 mm (W) x 248 mm (D) x22 mm (H)
Weight	approx. 2kg
Certification	CE, RoHS, REACH

Order Information

Name	Part Number	Description
BRICK2 STORAGE NVMe	B17049-B2S-202-030T	BRICK2 STORAGE NVMe 30 TB, 8x 3,84 TB, PCIe 3.0, including neopren protection cover
BRICK2 STORAGE NVMe	B17049-B2S-202-060T	BRICK2 STORAGE NVMe 60 TB, 8x 7,68 TB, PCIe 3.0, including neopren protection cover
BRICK STORAGE Transport Case	B17575-ACC-003-0001	Very robust Transport Case for up to 5 BRICK or BRICK2 STORAGEEs
BRICK STORAGE Protection Cover	B17575-ACC-010-0010	Pack of 10 BRICK STORAGE Protection Cover blue with logo print, size 305 x 265mm, 3mm neoprene