

LYVE™ Mobile Array

Data Sheet

Flexible Data Movement for Any Workflow



Seagate® Lyve™ Mobile Array is a portable, rackable data storage solution designed to quickly and securely store data at the edge or move data across your enterprise. Both the full-flash and hard drive versions enable universal data compatibility, versatile connectivity, secure encryption, and ruggedized data transportation. Lyve Mobile Array is available through Seagate's Lyve Data Services and Data Transfer as a Service offering.



Best-Fit Applications

- Large lift-and-shift data migration projects
- Disaster recovery and data redundancy transfer projects
- Edge data aggregation and quick data ingest to cloud, multicloud, or private data centers



Data activation at the edge.

Simple. Ready to use - Plug and play to fit any environment and data management workflow where you need it.

Efficient. Capture data anywhere and move it everywhere with a flexible and efficient subscription service model

Secure. Seagate Secure™ offers industry-standard AES 256-bit hardware encryption at rest and in motion. Backed up by superior manufacturing, a global support, and service capabilities.

Scalable for multiple environments. Both office and data center ready, with RAID SSD and HDD configuration options available, and convenient desktop and data center connectivity.

Data management. Works seamlessly with Lyve Client and Lyve Pilot software to enable user-defined automation, data motion, superior security, metadata tagging, universal S3 cloud compatibility, and more.

Flexible. Versatile interfaces like including Thunderbolt™3, PCIe®, and USB-C let Lyve Mobile Array connect everywhere. Use the optional Lyve MobileRackmount Receivers for data center and 19" rack integration with Fibre Channel, iSCSI, and SAS ports.

Local high-performance storage applications with Seagate Lyve USM (High Performance PCIe gen 3.0) and VelosCT™ technology. PCIe read/write performance, up to 6GB/s and 12GB/s (dual port).



Specifications	
Physical Characteristics	Handle for carrying and racking Fully enclosed, non-serviceable
Capacity (6-bay array)	HDD Exos™ SAS: 60TB, 96TB SSD Nytro™ SAS: 46TB, 92TB
File System	exFAT (default) or user-defined
Interface (DAS)	2x USB-C for either Thunderbolt™ 3 (40Gb/s) or USB 3.2 (10Gb/s) ¹ 1x Lyve USM (High Performance PCIe® gen 3.0) Mobile Array PCIe Adapter required. SAS available with Rackmount Receiver option.
Network Interfaces (SAN)	Lyve™ Mobile Rackmount Receiver required for iSCSI ¹ (2xRJ45 1/10G copper 4x SFP+ 10/25G optical) or Fibre Channel (2x SFP+ 16/32G optical). No SFP included with optical interfaces
Throughput	Lyve USM (High Performance PCIe® gen 3.0): 6GB/s Lyve USM (High Performance PCIe® gen 3.0) Dual-Port ¹ : 12GB/s Thunderbolt 3: 2.8GB/s. USB 3.2 ¹ : 620MB/s
Supported RAID Modes	RAID 0 and RAID 5 (Default)
Noise Level	34dBA to 53dBA - Temperature and activity dependent
Nonoperating Drop Height	300mm/11.81in (HDD) 500mm/19.68in (SSD)
Operating Drop Height	60mm/2.36in (HDD) 100mm/3.94in (SSD)
Power Specifications (voltage)	LYVE MOBILE ARRAY: Power Input 100-240VAC, 50-60Hz Power Input 12VDC, 15A ¹ LYVE RACKMOUNT RECEIVER: Integrated redundant power supplies; Power Input 100-240VAC, 50-60Hz [*] Provided for reference only. Lyve Mobile Array and Lyve Mobile PCIe adapter have been certified by Safety and EMC laboratories for use with their provided power adapters only.
Power Consumption (typical)	130W (typical), 240W max (during startup HDD version); 180W max (SSD version)
Environmental Compliance	REACH, RoHS-2
Safety and Regulatory	FCC, CE, RCM, VCCI, BSMI, NOM and KCC ¹
Temperature (HDD model)	+5°C to +40°C +41°F to +104°F (operating) -40°C to +65°C -40°F to +149°F (nonoperating)
Temperature (SSD model)	+5°C to +50°C +41°F to +122°F (operating) -40°C to +65°C -40°F to +149°F (nonoperating)
Relative Humidity	10% to 60% (noncondensing, operating) 5% to 85% (noncondensing, nonoperating)
Vibration (max. operational)	SSD: 0.5G, Random, 5–500Hz (operating) HDD: 0.25G, Random, 5–500Hz (operating)
Vibration (max. nonoperating)	1.14G (HDD and SSD nonoperating)
Security	Seagate Secure™ AES-256 bit encryption, crypto erase and TCG enterprise encryption
Software	Lyve™ Client software for setup, management, and security with physical product locking
Smart State Enabled	Pre-defined RGB LED states for various functions
Included Cables	Thunderbolt 3, external power supply
In-Transit Protection	Lyve Mobile Array Shipper
Lyve Mobile Array Shipper Tests	MIL-STD-810F §512.4, 514.5, 516.5; DEF STAN 81-41 Part 3/4 IP6X Category 2 and IPX7

¹ Coming soon

Specifications		
	Product Dimensions	Box Dimensions
Height (in/mm)	5.7in 145mm	12.283in 312mm
Width (in/mm)	8.27in 210mm	19.882in 505mm
Depth (in/mm)	16.45in 418mm	25in 635mm
Weight (lb/kg) - SSD	20.9lb 9.5kg	2.646lb 23.88kg
Weight (lb/kg) - HDD	27.5lb 12.5kg	9.282lb 26.89kg



Region	Model Number	Capacity	Notes
WW	STJX46000400	46TB	6 × 7.6TB Nytro SSD RAID 5 Capacity 38.4TB
WW	STJX60000400	60TB	6 × 10TB Exos HDD RAID 5 Capacity 50TB
WW	STJX90000400	92TB	6 × 15.3TB Nytro SSD RAID 5 Capacity 75TB
WW	STJX96000400	96TB	6 × 16TB Exos HDD RAID 5 Capacity 80TB

Lyve Mobile Array Accessories	
Lyve Mobile Rackmount Receiver	Optional Lyve Rackmount Receiver required for use in standard 19-in rack. Functional with 1 or 2 Lyve Mobile Arrays
Rackmount Receiver Power	Integrated redundant power supplies; Power input 100–240vAC, 50–60Hz, max. 380W
Rackmount Receiver Ports	Version-dependent, field-replaceable interface cards.
Rackmount Receiver Dimension	4U (Height 7in/177.8mm Width 19in/482.6mm Depth 24.5in/624.84mm)
Lyve Mobile Mount	Fixture frame for edge or vehicle applications Product Dimensions: Height 7.76in/197mm Width 9.6in/244mm Depth 21.54in/547mm
Lyve Mobile PCIe Adapter	Provides NVMe like storage over 2 SFF-8644 ports. Recommended use and seamlessly integrates with Mobile Mount

Product Images			
Lyve Rackmount Receiver	Lyve Mobile Mount	Lyve Mobile PCIe Adapter	Lyve Mobile Array Shipper
			

System Requirements	What's Included
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- Windows® 10 or higher
- Mac® 10.15 or higher
- Ubuntu 20.04 and RedHat 8
- Lyve Client Software for Windows/OSx/Linux

- Seagate® Lyve™ Mobile Array
- Lyve Mobile Array Shipper
- Quick start guide
- Thunderbolt™ 3 active cable (1.5m)
- 20V power adapter for UK, EU/KR, USA/JP, AUS/NZ
- USB3.1 gen2 cables (1m type C/C and 1m type C/A) ¹

Lyve Mobile Array and Rackmount Receiver Options	Data Cable Included	Model Number
Lyve Mobile Mount		STKU400
Lyve Mobile PCIe Adapter		STKY400
Lyve Mobile Rackmount Receiver 2 Port SAS 12G (per Mobile Array)	HDSAS; length: 4m; 4pcs.	STKA400
Lyve Mobile Rackmount Receiver 2 Port Fibre Channel 16Gb (per Mobile Array)	UPC-FC/UPC Patch cord OM3; length: 2m; 4pcs.	STKA401
Lyve Mobile Rackmount Receiver 2 Port Fibre Channel 32Gb (per Mobile Array)	UPC-FC/UPC Patch cord OM3; length: 2m; 4pcs.	STKA402
Lyve Mobile Rackmount Receiver 2 Port RJ45 iSCSI 10GBASE-T (per Mobile Array) ¹	CAT6A 26AWG 10G; length: 1.5m; 4pcs.	STKA403
Lyve Mobile Rackmount Receiver 4 Port iSCSI 25GB - 10G SFP+ (per Mobile Array) ¹	UPC-FC/UPC Patch cord OM3; length: 2m; 8pcs.	STKA404
Lyve Mobile Rackmount Receiver 4 Port iSCSI 25GB - 25G SFP+ (per Mobile Array) ¹	UPC-FC/UPC Patch cord OM3; length: 2m; 8pcs.	STKA405

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