

### Hybrid Flash Unified Storage

## VS320D-RS12U

Optimize Price and Performance for SMB Workloads



# **Key Benefits Outstanding Performance**

- Tiny and compact with activeactive architecture.
- Outstanding scale-up capability up to 7.7 PB.
- Multiple protocol support and cross ASUS platform replication

#### **Dependable Data Experience**

- 99.9999% high availability design with no single point of failure.
- Cache-to-flash to protect cache data in power outage.
- Non-disruptive firmware upgrade ensures continuous data service with zero downtime.

#### **Versatile Connectivity**

- Each controller with built-in 4-port 10 GbE (SFP+) and maximum 12 LAN ports allows direct connection to multiple hosts without switches.
- Optional high-speed 25 GbE and 32 Gb Fibre Channel NICs.

#### **Modern Simplicity**

- ASUS Storage Manager, a flashbased storage management system, minimizes the learning curve and eases maintenance through an intuitive GUI.
- Data can be accessed in 5 minutes after installation.
- Allows you to expansion capacity with 4 JBODs and data migration.

#### **Leading Density with High Capacity**

The VS320D-RS12U (3.5" 2U 12-bay) is a compact hybrid flash storage system with a low acquisition cost.

In the face of rapid, unpredictable growth of SMB, the flexibility capacity expansion as you grow makes it an excellent solution. Offers outstanding performance ideal for modern enterprise applications such as large scale surveillance, media non-Linear editing and backup.

#### **High Availability and Enterprise Reliability**

The ASUS Storage series is a proven high availability unified storage system with full redundancy in modular design. Its dual-active architecture and automatic failover / failback mechanism, coupled with cache-to-flash technology, enables the system to withstand critical situations.

#### Flexible I/O Modules and Scale-up Capacity as Needed

Each controller has two NIC slots that can be configured as CIFS, NFS, FTP, iSCSi, FCP, or multi protocols of built-in 4-port 10 GbE iSCSI and file protocols (SFP+). As a result, the series offers great flexibility with built-in 8-port 10 GbE iSCSI (SFP+) and up to 24 LAN ports in a dual-controller system. In addition, the VS320D-RS12U provides massive scale-up capabilities by connecting ASUS expansion units (JBOD) with up to 324 SAS disk drives in 7.7 PB raw capacity for future data growth.

#### **Proven Simplicity - "Set and Forget" Data Services**

ASUS Unified Storage Manager, a storage management system with intuitive GUI designs, helps to save time in storage deployment considerably. ASUS Storage Unified Manager also delivers enterprise storage features including complete RAID level protection, RAID EE with fast rebuild, thin provisioning, SSD cache, auto-tiering, compression, inline deduplication and more. With the help of an intuitive dashboard and reporting system, managers can analyze business usage and monitor storage status in real time.

#### **Advanced Data Protection to Safeguard Assets**

To protect against data loss and downtime events, ASUS Unified Storage Manager provides complete array- based backup functions including local backup and remote replication. Based on snapshot technology, a solid safety net for disaster recovery can be built to meet the required RPO and RTO.

#### **Secure Data and Secure Management**

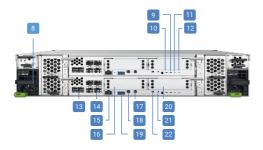
Supporting SED (Self-Encrypting Drives) will keep your sensitive data safe even if the drives are lost, stolen, or misplaced. WORM (Write Once Read Many) will keep your sensitive data safe to prevent human or ransomware tampering. Additionally, Windows ACL (Access Control List) and RBAC (Role-Based Access Control) helps to prevent unauthorized access to your data. All management communication is secured over https.





## **VS320D-RS12U**

# Appearance 1 2 3



- 1. Enclosure Status LED
- 2. Enclosure Access LED
- 3. Enclosure Power Button / LED
- 4. Disk Drive Status LED
- 5. Disk Drive Power LED
- 6. USB Port
- UID (Unique Identifier) Button / LED
- 8. Power Supply Unit
- 9. Master / Slave LED (only for dual controllers)
- 10. Controller Status LED
- 11. Dirty Cache LED
- 12. UID (Unique Identifier) LED
- 13. 12 Gb/s SAS Wide Port
- 14. 10 GbE iSCSI (SFP+) Port
- 15. Management Port
- 16. LAN Card Slot 1 (LAN card is an optional part)
- 17. Service Port
- 18. Console Port
- 19. USB Port
- 20. LAN Card Slot 2 (LAN Card is an optional part)
- 21. Reset to Factory Default Button
- 22. Buzzer Mute Button

#### **System Specification**

System Specification	
Model Name	VS320D-RS12U
Architecture	Dual-active controller
CPU	
Processor	Intel® Xeon® 64-bit 4-core (per controller)
Memory	
Memory Module	DDR4 ECC DIMM (per controller)
Total Memory Slots	4 (per controller)
Memory Expandable up to	128 GB (per controller)
Storage	(I)
Drive Bays	3.5" Slot x 12
Maximum Drive Bays with Expansion	
Unit (JBOD)	324
Compatible Drive Type	3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD
Drive Interface	SAS 12 Gb/s
Maximum Internal Raw Capacity	288 TB (calculate 24 TB HDD)
Maximum Raw Capacity with	200 TD (calculate 24 TD TIDD)
Expansion Units (JBOD)	7,776 TB (calculate 24 TB HDD)
Hot Swappable Drive	Yes
<b>Connectivity Port</b>	
PCIe Expansion	(Gen 3x8 Slot) x 2
1 GbE RJ45 LAN Port	1 (onboard management port per controller)
10 GbE SFP+ LAN Port	4 (onboard per controller) / 4 (option)
10 GbE RJ45 LAN Port	4 (option)
25 GbE SFP28 LAN Port	2 (option) / 4 (option)
16 Gb SFP+ Fibre Channel	2 (option) / 4 (option)
32 Gb SFP28 Fibre Channel	2 (option) / 4 (option)
<b>Expansion and External Port</b>	
12 Gb/s SAS Wide Port	2 (onboard per controller)
USB Port	1 (front) / 2 (rear)
Others	Console Port x 1, Service Port (UPS) x 1
Software Specification	Console Port x 1, Service Port (UPS) x 1
	Console Port x 1, Service Port (UPS) x 1  ASUS Unified Storage Manager
Software Specification	ASUS Unified Storage Manager 0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE
Software Specification Storage OS	ASUS Unified Storage Manager 0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror
Software Specification Storage OS RAID Type Support Protocols	ASUS Unified Storage Manager 0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE
Software Specification Storage OS RAID Type	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP
Software Specification Storage OS RAID Type Support Protocols	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning Compression and Deduplication (option)
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA
Software Specification Storage OS RAID Type Support Protocols Storage Efficiency Software Acceleration	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance Dimension (H x W x D) (mm)	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance Dimension (H x W x D) (mm) Net Weight (kg)	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance Dimension (H x W x D) (mm) Net Weight (kg) Gross Weight (kg)	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM
Software Specification Storage OS  RAID Type  Support Protocols  Storage Efficiency  Software Acceleration Data Protection  Backup Service  Remote Replication  Security  Management  Appearance Dimension (H x W x D) (mm)  Net Weight (kg)  Gross Weight (kg)  Others	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* / Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8
Software Specification Storage OS  RAID Type  Support Protocols  Storage Efficiency  Software Acceleration Data Protection  Backup Service  Remote Replication  Security  Management  Appearance Dimension (H x W x D) (mm)  Net Weight (kg)  Gross Weight (kg)  Others  Memory Protection	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* / Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8  Cache-to-Flash (Supercapacitor Module + Flash Module) (option)
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance Dimension (H x W x D) (mm) Net Weight (kg) Gross Weight (kg) Others Memory Protection System Fan	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* / Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8  Cache-to-Flash (Supercapacitor Module + Flash Module) (option)  4 pcs
Software Specification Storage OS  RAID Type  Support Protocols  Storage Efficiency  Software Acceleration Data Protection  Backup Service  Remote Replication  Security  Management  Appearance Dimension (H x W x D) (mm) Net Weight (kg)  Gross Weight (kg)  Others  Memory Protection  System Fan Power Supply Unit	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8  Cache-to-Flash (Supercapacitor Module + Flash Module) (option)  4 pcs  850 W x 2 (80 PLUS Platinum)
Software Specification Storage OS  RAID Type  Support Protocols  Storage Efficiency  Software Acceleration Data Protection  Backup Service  Remote Replication  Security  Management  Appearance Dimension (H x W x D) (mm) Net Weight (kg)  Gross Weight (kg)  Others  Memory Protection  System Fan Power Supply Unit Power Consumption	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8  Cache-to-Flash (Supercapacitor Module + Flash Module) (option)  4 pcs  850 W x 2 (80 PLUS Platinum)  407 W
Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance Dimension (H x W x D) (mm) Net Weight (kg) Gross Weight (kg) Others Memory Protection System Fan Power Supply Unit Power Consumption Certification	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE  / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* /  Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM /  RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8  Cache-to-Flash (Supercapacitor Module + Flash Module) (option)  4 pcs  850 W x 2 (80 PLUS Platinum)
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Software Specification Storage OS  RAID Type Support Protocols Storage Efficiency Software Acceleration Data Protection Backup Service Remote Replication Security Management Appearance Dimension (H x W x D) (mm) Net Weight (kg) Gross Weight (kg) Others Memory Protection System Fan Power Supply Unit Power Consumption Certification Environment Operation temperature Non operation temperature	ASUS Unified Storage Manager  0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror  CIFS / NFS / FTP / WebDAV / iSCSI / FCP  Thin provisioning  Compression and Deduplication (option)  SSD cache / Auto tiering / RDMA  Snapshot  Rsync / S3 backup / Cloud backup / XMirror* / Microsoft 365 email backup  Asynchronous (built-in) / Synchronous (option)  SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus  Web UI / Serial console / RESTful API / S.E.S. / LCM  88 x 438 x 515  16.4  18.8  Cache-to-Flash (Supercapacitor Module + Flash Module) (option)  4 pcs  850 W x 2 (80 PLUS Platinum)  407 W  CE / FCC / BSMI / CCC
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