

Hybrid Flash Storage

VS320D-RS12

Optimize Price and Performance for SMB Workloads





Storage 12





Key Benefits Outstanding Performance

- Tiny and compact with dual active architecture.
- Excellent performance with 2.4 GB/s Sequential 1M R/W throughput.
- Outstanding scale-up capability up to 10 PB.

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 LANs without switches.
- Optional high-speed 25 GbE iSCSI and 32 Gb Fibre Channel LAN cards.

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.
- Wake-on-SAS allows you to remotely power on / off all cascaded ASUS expansion units for power saving.

Entry to Faster SAN Cost Effectively and "Pay as You Grow" Flexibility

The VS320D-RS12 (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 to pay as you grow makes it an excellent solution. Offers outstanding performance ideal for modern enterprise applications such as large scale surveillance, and backup.

High Availability and Enterprise Reliability

The ASUS Storage series is a proven high availability SAN 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 LAN card slots that can be configured as iSCSI, Fibre Channel, or a mix of both besides built-in 4-port 10 GbE iSCSI (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-RS12 provides massive scale-up capabilities by connecting ASUS expansion units or 3rd-party expansion units with up to 420 disk drives or 10 PB raw capacity for future data growth.

Proven Simplicity - "Set and Forget" Data Services

ASUS Storage Manager, a storage management system with intuitive GUI designs, helps to save time in storage deployment considerably. ASUS Storage Manager also delivers enterprise storage features including complete RAID level protection, RAID EE with fast rebuild, thin provisioning, SSD cache, autotiering, 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 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.

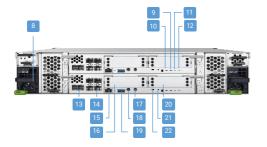
Secure Data and Secure Management

Supporting SED (Self-Encrypting Drives) will keep your sensitive data safe even if the drives are lost, stolen, or misplaced. Additionally, RBAC (Role-Based Access Control) helps to prevent unauthorized access to your data. All management communication is secured over https.



VS320D-RS12





- 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
- 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

Model Name	VS320D-RS12
Architecture	Dual-active controller
CPU	
Processor	Intel® Xeon® 64-bit 4-core
Memory	
Memory Module	DDR4 ECC DIMM (per controller)
Total Memory Slots	4 (per controller)
Memory Expandable up to	256 GB (per controller)
Storage	
Drive Bays	3.5" Slot x 12
Maximum Drive Bays with Expansion	
Unit	420
Competible Drive Trac	3.5" & 2.5" SAS, NL-SAS, SED HDD
Compatible Drive Type	2.5" SAS, SED SSD
Drive Interface	SAS 12 Gb/s
Maximum Internal Raw Capacity	288 TB (calculate 24 TB SSD)
Maximum Raw Capacity with	10,080 TB (calculate 24 TB HDD)
Expansion Units	· · · · · · · · · · · · · · · · · · ·
Hot Swappable Drive	Yes
Connectivity Port	
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)
Expansion and External Port	2/
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	ACUIC Chauses Manager
Storage OS	ASUS Storage Manager
RAID Type	0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror
Storage Efficiency	Thin provisioning
Software Acceleration	SSD cache (option) / Auto tiering (option)
Data Protection	Snapshot / Local volume clone
Remote Replication	Asynchronous (built-in) / Synchronous (option)
Security	HTTPS / SSH / iSCSI CHAP / ISE & SED
Management	Web UI / Serial console / RESTful API / S.E.S. / LCM
Appearance	, , , , , , , , , , , , , , , , , , , ,
Dimension (H x W x D) (mm)	88 x 438 x 515
Net Weight (kg)	16.4
Gross Weight (kg)	18.8
Others	
Memory Protection	Cache-to-Flash (Supercapacitor Module + Flash Module) (option)
System Fan	4 pcs
Power Supply Unit	850 W x 2 (80 PLUS Platinum)
Power Consumption	407 W
Certification	CE / FCC / BSMI / CCC
Environment	
Operation temperature	0°C to 40°C
Non operation temperature	-10°C to 50°C
Non operation humidity	10% to 90% (Non condensing)
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Hybrid Flash Unified Storage

VS320D-RS12U

Optimize Price and Performance





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

- 99.999% 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 dualcontroller 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

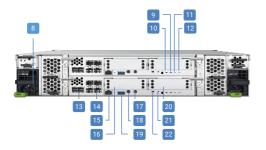
Supporting SED (Self-Encrypting Drives) will keep your sensitive data safe even if the drives are lost, stolen, or misplaced. WORM (Write Once Read Many) will keep your sensitive data safe to prevent human or ransomware tampering. Additionally, Windows ACL (Access Control List) and RBAC (Role-Based Access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

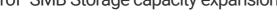
System Specification	
Model Name	VS320D-RS12U
Architecture	Dual-active controller
CPU	
Processor	Intel® Xeon® 64-bit 4-core (per controller)
Memory	
Memory Module	DDR4 ECC DIMM (per controller)
Total Memory Slots	4 (per controller)
Memory Expandable up to	128 GB (per controller)
Storage	(I)
Drive Bays	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	
Expansion Units (JBOD)	7,776 TB (calculate 24 TB HDD)
Hot Swappable Drive	Yes
Connectivity Port	
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)
Expansion and External Port	2 (option) / (option)
12 Gb/s SAS Wide Port	2 (onboard per controller)
USB Port	1 (front) / 2 (rear)
0301010	I (Holle) / Z (rear)
Others	Console Port x 1 Service Port (UPS) x 1
Others Software Specification	Console Port x 1, Service Port (UPS) x 1
Software Specification	
Software Specification Storage OS	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 RAID Type	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 Remote Replication	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 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)	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)	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
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	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) 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 Environment	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
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	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



2U 12bays SAS JBOD

VS320D-RS12J

Dual Active Expander & High Availability JBOD for SMB Storage capacity expansion





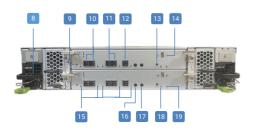












- 1. **Enclosure Status LED**
- **Enclosure Access LED**
- 3. Enclosure Power Button / LED
- Disk Drive Status LED 4.
- Disk Drive Power LED
- 6. **USB Port**
- 7. UID (Unique Identifier) Button /
- 8. **Power Supply Unit**
- 9. Reset to Factory Default Button
- 12Gb/s SAS Wide Port 1 and Port 2
- 11. 12Gb/s SAS Wide Port 3 and Port 4
- 12. 12Gb/s SAS Wide Port 5
- **Buzzer Mute Button**
- Seven-segment LED Display 14
- 15. SAS LED
- **Console Port**
- 17 Service Port
- 18. Controller Status LED
- UID (Unique Identifier) LED

Key Benefits Outstanding Performance

The VS320D-RS12J (3.5" 2U 12-bay) is a storage expansion JBOD unit with a low acquisition cost.

Excellent performance with 12Gb/s SAS interface and 48 Gb/s SAS Wide Port. Outstanding scale-up capability up to 1.1 PB and ideal for modern enterprise applications such as 2nd cold data pools, large scale surveillance, and backup.

High Availability and Enterprise

Reliability JS320D-RS12J is a proven high availability JBOD with fully redundant components for all significant functions, including dual expander, power supplies, fan modules, host ports, and expansion ports.

Wake-on-SAS allows you to remotely power on / off all cascaded ASUS expansion units for power saving.

System Specification

VS320D-RS12J
Dual-active expander
3.5" Slot x 12
48 (12x4)
3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD
SAS 12 Gb/s , 48Gb/s Wide Port
288 TB (calculate 24 TB SSD)
1,152 TB (calculate 24 TB HDD)
Yes
5 (onboard) per expander
1 (front)
1 Console Port and 1 Service Port
88 x 438 x 515
16.4
18.8
4 pcs
850 W x 2 (80 PLUS Platinum)
407 W
CE / FCC / BSMI / CCC
0°C to 40°C
-10°C to 50°C
10% to 90% (Non condensing)