EonStor DS 4000 Gen2 series

High-powered performance featuring 12Gb/s SAS for midrange storage market

Ultra performance - DS 4000 Gen2

- Ultra high 11,000MB/s read and 5,500MB/s write stable throughput handle even the most demanding applications, including Media & Entertainment
- Extreme 750K end-to-end IOPS performance makes it the perfect all-flash/hybrid solution for IOPS-intensive applications such as VDI and Database
- 256GB DDR4 memory support per system accelerates overall performance

SSD optimized

- Automated storage tiering optimizes system performance and capacity
- SSD Cache supports 6.4TB SSD cache pool per system to increase cache hit rate and accelerate read performance

Latest 12Gb/s SAS technology

Comprehensive 12 Gb/s SAS technology doubles data transfer speed between the storage enclosure and the host server for maximized performance

Flexible interface options

- Modular dual host board controller with integrated FC, SAS, iSCSI and FCoE protocols maximizes connection versatility for hosts
- Converged host board with 4 connectivity options ensures future-proof multi-channel appliances (16Gb/s FC, 8Gb/s FC, 10Gb/s iSCSI SFP+, 10Gb/s FCoE)

Wide scalability

- Future-proof expansion solution offers ample data capacity of up to 444 drives per system
- Compatible JBODs in different form factors, including SFF 2U 24-bay, LFF 3U 16-bay and LFF 4U 60-bay make capacity expansions quick and simple.

EonStor DS 4000 Gen2 systems deliver top-notch performance in their segment, bringing unrivaled power to SMBs. With their unique dual host board design and 12Gb/s SAS interfaces to internal SAS or SATA disk drives, these systems achieve a massive throughput to meet even highly demanding applications such as media editing. They are also extremely scalable and integrate advanced data services such as SSD Cache, automated storage tiering, and self-encrypting drives.

Massive performance makes EonStor DS 4000 Gen2 systems perfect for media industry

Thanks to optimized design and advanced processing power, EonStor DS 4000 Gen2 systems achieve unprecedented performance figures for mid-range storage and can easily handle even very intense networked storage demands. Delivering up to 750K end-to-end IOPS, 11,000MB/s sequential read throughput and 5,500MB/s sequential write throughput, they ensure users are prepared to take on IT challenges for years to come.

Leading performance turns EonStor DS 4000 Gen2 systems into productivity-boosting hubs for multiple 2K resolutions and 4K resolutions streams in media industry, with no slowdown or lag experienced thanks to their ample processing power and storage bandwidth. Strong performance means smooth service to large workforces.

Fully optimized for SSD

The storage industry is moving towards high speed, reliable, and efficient solid state drives, and the EonStor DS 4000 Gen2 systems is future-ready. In addition to hybrid drive trays (2.5"/3.5"), it supports a range of SSD-focused software solutions, including automated storage tiering and self-managing SSD Cache. These two functions combine to leverage the advantages of each drive type, whether SSD, SAS, NL-SAS or SATA, by sorting data based on tenure and access frequency. This allows hot data to enjoy 16X more read IOPS and 88% lower latency, while maximizing SSD utilization and protecting your investment. EonStor DS systems feature real time wear level monitoring to pre-empt potential failures and prevent data loss.

Native support for 12Gb/s SAS: host and drive side

The 12Gb/s SAS host and drive side interface offers a low latency pathway without compromising performance due to delays or bandwidth limits. It features built-in connection scaling, adapting to different capacities and adjusting actual connection bandwidth based on real time loads. With 12Gb/s SAS, users benefit from a better cost-performance ratio, improving their ROI.

EonStor DS 4000 Gen2 systems feature dual host board controller

Innovative design places two host boards side by side on EonStor DS 4000 Gen2 systems, unlocking higher levels of flexibility and performance by allowing different combinations of Fibre Channel (up to 16Gb/s), SAS (up to 12Gb/s), iSCSI (up to 10Gb/s), FCoE (up to 10Gb/s). Each host board can also support hybrid interfaces, effectively quadrupling connectivity.

Emergency backup power

- Super capacitors with flash module ensure data integrity during power outages
- Last through the entire lifespan of the system and are maintenance-free

Data and security services

- Secure remote replication to backup data over long distances
- Intelligent Drive Recovery(IDR) scans media and corrects errors to ensure data integrity at all times
- Features snapshot, thin provisioning, and more

User friendly

- Intuitive SANWatch, RAIDWatch interfaces and command line interface customization
- User friendly yet sophisticated UI with full access to features

Green design

- Redundant 80 PLUS power supplies
- Accommodates 2.5" and 3.5" drives (hybrid tray)
- Intelligent drive and fan spin-down reduce energy waste

Symmetric active-active controllers

- Symmetric active-active controllers
- Automatically reconnected I/O during path failure

Emergency backup power safeguards data

Protecting against data loss due to prolonged power outages, EonStor DS 4000 Gen2 systems include super capacitors paired with a flash module. If power fails, data is written to the flash cache and kept powered by the super capacitors for extended periods of time. Super capacitors require no maintenance and last for the life of the storage system, making them a very convenient and cost effective emergency backup measure.

Comprehensive data and security services

All EonStor DS 4000 Gen2 systems support self-encrypting drives (SEDs), which are factory secured against even the most direct physical intrusion. SEDs defend against data theft and misplacement and make deletion much faster than traditional methods, as invalidating the key renders all data on the drive permanently unreadable.

For disaster recovery, the EonStor DS family supports secure remote replication. Local replication is offered via snapshot and volume copy/mirror. Thin provisioning is standard, and all data is covered by smart media scan and IDR (Intelligent Drive Recovery) technology, which detects faulty sectors and quickly clones affected data to prevent loss, even due to silent errors that would go unnoticed by other storage systems. All of these features are easily accessible from our user-friendly SANWatch browser-based interface.

Performance Review

EonStor DS 4000 Gen2 Series	Max. Memory /per system	IOPS End-to-end	Throughput(MB/s) Seq. Read/Write
EonStor DS 4000 Gen2	256GB	750K	11,000/5,500

Symmetric active-active controllers

EonStor DS supports symmetric active-active controller configuration to minimize administrative effort and boost operation efficiency. Hosts can access the same LUNs simultaneously via both controllers. I/O are more equally distributed across both controllers and all paths, effectively minimizing costly path management time. In the event of a path failure, I/O can automatically continue through the remaining paths with little or no failover.

*Only support ESDS 4016R2C, ESDS 4016G2, ESDS 4024R2CB, ESDS 4024S2CB, ESDS 4024R2C, ESDS 4024S2C

Model name	**DS 4016RU Gen2**		**DS 4016SU Gen2**
Form factor	3U 16-bay LFF		
Storage controller	Dual-redundant		Single upgradable to redundant
Max. host ports (per system)	20 ports		10 ports
Host connectivity (per controller) — **Host board 1**	2 x 16Gb FC ports 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) 4 x 8Gb FC ports 4 x 10Gb FCoE ports	2 x 10Gb iSCSI ports (RJ45) 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports 2 x 40Gb iSCSI ports	
Host connectivity (per controller) — **Host board 1 + Host board 2**	2 x 16Gb FC ports + 2 x 16Gb FC ports 2 x 12Gb SAS ports + 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) + 2 x 16Gb FC ports 4 x 8Gb FC ports + 4 x 8Gb FC ports 2/4 x 10Gb iSCSI ports (SFP+) + 2/4 x 10Gb iSCSI ports(SFP+) 4 x 10Gb FCoE ports + 4 x 10Gb FCoE ports		2/4 x 10Gb iSCSI ports (SFP+) + 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (RJ45) + 2 x 10Gb iSCSI ports (RJ45) 2 x 56Gb InfiniBand ports + 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports + 4 x 16Gb FC ports 2 x 40Gb iSCSI ports + 2 x 40Gb iSCSI ports
Onboard iSCSI ports (per controller)	2 x 1Gb iSCSI port		
Cache memory (per controller)	4GB, 8GB, 16GB, 32GB, 64GB, 128GB		
Max. drives (per system)	16		
Max. drives (via expansion enclosures)	436		
Expansion enclosure (JBOD)	JB 3016　　JB 3060		
SAS expansion ports (per controller)	2 x 12Gb SAS port		
Cache backup techniques	Super capacitor + Flash module		
Supported drives[1]	• 2.5" SATA/SAS SSD　　• 2.5" 10K/15K RPM SAS HDD		• 3.5" 7200 RPM NL SAS HDD
Power & Cooling	Power supply: Redundant/hot-swappable 530W x 2; Voltage and Frequency: 100-240 Vac, 50-60Hz		
	Power consumption: 338W Heat dissipation: 1259BTU/hour		Power consumption: 250W Heat dissipation: 1259(BTU/hour)
Green design	• 80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down		
RAID configurations	• RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 • Up to 32 logical drives and 64 partitions per logical volume		
Max.number of partitions supported	Up to 2048(LUNs)		
Max.mappable LUNs per system	4000		
Regulatory[2]	• Safety : UL, BSMI, CB, EAC • Electromagnetic Compatibility : CE, BSMI, FCC, KC		

Model name	**DS 4024RUB Gen2**		**DS 4024SUB Gen2**
Form factor	2U 24-bay SFF		
Storage controller	Dual-redundant		Single upgradable to redundant
Max. host ports (per system)	20 ports		10 ports
Host connectivity (per controller) — **Host board 1**	2 x 16Gb FC ports 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) 4 x 8Gb FC ports 4 x 10Gb FCoE ports	2 x 10Gb iSCSI ports (Rj45) 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports 2 x 40Gb iSCSI ports	
Host connectivity (per controller) — **Host board 1 + Host board 2**	2 x 16Gb FC ports + 2 x 16Gb FC ports 2 x 12Gb SAS ports + 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) + 2 x 16Gb FC ports 4 x 8Gb FC ports + 4 x 8Gb FC ports 2/4 x 10Gb iSCSI ports (SFP+) + 2/4 x 10Gb iSCSI ports(SFP+) 4 x 10Gb FCoE ports + 4 x 10Gb FCoE ports		2/4 x 10Gb iSCSI ports (SFP+) + 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (RJ45) + 2 x 10Gb iSCSI ports (Rj45) 2 x 56Gb InfiniBand ports + 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports + 4 x 16Gb FC ports 2 x 40Gb iSCSI ports + 2 x 40Gb iSCSI ports
Onboard iSCSI ports (per controller)	2 x 1Gb iSCSI port		
Cache memory (per controller)	4GB, 8GB, 16GB, 32GB, 64GB, 128GB		
Max. drives (per system)	24		
Max. drives (via expansion enclosures)	444		
Expansion enclosure (JBOD)	JB 3016　　JB 3024B　　JB 3060		
SAS expansion ports (per controller)	2 x 12Gb SAS port		
Cache backup techniques	Super capacitor + Flash module		
Supported drives[1]	• 2.5" SATA/SAS SSD　　• 2.5" 10K/15K RPM SAS HDD		
Power & Cooling	Power supply: Redundant/hot-swappable 530W x 2; Voltage and Frequency: 100-240 Vac, 50-60Hz		
	Power consumption: 313W Heat dissipation: 761BTU/hour		Power consumption: 238W Heat dissipation: 761BTU/hour
Green design	• 80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down		
RAID configurations	• RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 • Up to 32 logical drives and 64 partitions per logical volume		
Max.number of partitions supported	Up to 2048(LUNs)		
Max.mappable LUNs per system	4000		
Regulatory[2]	• Safety : UL, BSMI, CB, EAC • Electromagnetic Compatibility : CE, BSMI, FCC, KC		

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3. Linux only

Model name	**DS 4016R Gen2**		**DS 4016G Gen2**	
Form factor	3U 16-bay LFF			
Storage controller	Dual-redundant		Single	
Max. host ports (per system)	24 ports		12 ports	
Host connectivity (per controller)	**Host board 1**	2 x 16Gb FC ports 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) 4 x 8Gb FC ports 4 x 10Gb FCoE ports	2 x 10Gb iSCSI ports (RJ45) 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports 2 x 40Gb iSCSI ports	
	Host board 1 + Host board 2	2 x 16Gb FC ports + 2 x 16Gb FC ports 2 x 12Gb SAS ports + 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) + 2 x 16Gb FC ports 4 x 8Gb FC ports + 4 x 8Gb FC ports 2/4 x 10Gb iSCSI ports (SFP+) + 2/4 x 10Gb iSCSI ports(SFP+) 4 x 10Gb FCoE ports+4 x 10Gb FCoE ports	2/4 x 10Gb iSCSI ports (SFP+) + 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (RJ45) + 2 x 10Gb iSCSI ports (RJ45) 2 x 56Gb InfiniBand ports+2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports + 4 x 16Gb FC ports 2 x 40Gb iSCSI ports + 2 x 40Gb iSCSI ports	
Onboard iSCSI ports (per controller)	4 x 1Gb iSCSI port			
Cache memory (per controller)	4GB, 8GB, 16GB, 32GB, 64GB			
Max. drives (per system)	16			
Max. drives (via expansion enclosures)	436			
Expansion enclosure (JBOD)	JB 3016 JB 3060			
SAS expansion ports (per controller)	1 x 12Gb SAS port			
Cache backup techniques	Super capacitor + Flash module			
Supported drives[1]	• 2.5" SATA/SAS SSD • 2.5" 10K/15K RPM SAS HDD • 3.5" 7200 RPM NL SAS HDD			
Power & Cooling	Power supply: Redundant/hot-swappable 460W x 2; Voltage and Frequency: 100-240 Vac, 50-60Hz			
Green design	•80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down			
RAID configurations	• RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 • Up to 32 logical drives and 64 partitions per logical volume			
Max.number of partitions supported	Up to 2048(LUNs)			
Max.mappable LUNs per system	4000			
Regulatory[2]	• Safety : UL, BSMI, CB, EAC • Electromagnetic Compatibility : CE, BSMI, FCC, KC			

Model name	**DS 4024RB Gen2**		**DS 4024SB Gen2**	
Form factor	2U 24-bay SFF			
Storage controller	Dual-redundant		Single upgradable to redundant	
Max. host ports (per system)	24 ports		12 ports	
Host connectivity (per controller)	**Host board 1**	2 x 16Gb FC ports 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) 4 x 8Gb FC ports 4 x 10Gb FCoE ports	2 x 10Gb iSCSI ports (Rj45) 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports 2 x 40Gb iSCSI ports	
	Host board 1 + Host board 2	2 x 16Gb FC ports + 2 x 16Gb FC ports 2 x 12Gb SAS ports + 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) + 2 x 16Gb FC ports 4 x 8Gb FC ports + 4 x 8Gb FC ports 2/4 x 10Gb iSCSI ports (SFP+) + 2/4 x 10Gb iSCSI ports(SFP+) 4 x 10Gb FCoE ports+4 x 10Gb FCoE ports	2/4 x 10Gb iSCSI ports (SFP+) + 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (RJ45) + 2 x 10Gb iSCSI ports (Rj45) 2 x 56Gb InfiniBand ports+2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports + 4 x 16Gb FC ports 2 x 40Gb iSCSI ports + 2 x 40Gb iSCSI ports	
Onboard iSCSI ports (per controller)	4 x 1Gb iSCSI port			
Cache memory (per controller)	4GB, 8GB, 16GB, 32GB, 64GB			
Max. drives (per system)	24			
Max. drives (via expansion enclosures)	444			
Expansion enclosure (JBOD)	JB 3024B JB 3060			
SAS expansion ports (per controller)	1 x 12Gb SAS port			
Cache backup techniques	Super capacitor + Flash module			
Supported drives[1]	• 2.5" SATA/SAS SSD • 2.5" 10K/15K RPM SAS HDD • 3.5" 7200 RPM NL SAS HDD			
Power & Cooling	Power supply: Redundant/hot-swappable 460W x 2; Voltage and Frequency: 100-240 Vac, 50-60Hz			
Green design	• 80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down			
RAID configurations	• RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 • Up to 32 logical drives and 64 partitions per logical volume			
Max.number of partitions supported	Up to 2048(LUNs)			
Max.mappable LUNs per system	4000			
Regulatory[2]	• Safety : UL, BSMI, CB, EAC • Electromagnetic Compatibility : CE, BSMI, FCC, KC			

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	Model name	**DS 4024R Gen2**	**DS 4024S Gen2**
Form factor		4U 24-bay LFF	
Storage controller		Dual-redundant	Single upgradable to redundant
Max. host ports (per system)		24 ports	12 ports
Host connectivity (per controller)	**Host board 1**	2 x 16Gb FC ports 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) 4 x 8Gb FC ports 4 x 10Gb FCoE ports	2 x 10Gb iSCSI ports (RJ45) 2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports 2 x 40Gb iSCSI ports
	Host board 1 + Host board 2	2 x 16Gb FC ports + 2 x 16Gb FC ports 2 x 12Gb SAS ports + 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) + 2 x 16Gb FC ports 4 x 8Gb FC ports + 4 x 8Gb FC ports 2/4 x 10Gb iSCSI ports (SFP+) + 2/4 x 10Gb iSCSI ports(SFP+) 4 x 10Gb FCoE ports+4 x 10Gb FCoE ports	2/4 x 10Gb iSCSI ports (SFP+) + 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (RJ45) + 2 x 10Gb iSCSI ports (RJ45) 2 x 56Gb InfiniBand ports+2 x 56Gb InfiniBand ports[3] 4 x 16Gb FC ports + 4 x 16Gb FC ports 2 x 40Gb iSCSI ports + 2 x 40Gb iSCSI ports
Onboard iSCSI ports (per controller)		4 x 1Gb iSCSI port	
Cache memory (per controller)		4GB, 8GB, 16GB, 32GB, 64GB	
Max. drives (per system)		24	
Max. drives (via expansion enclosures)		444	
Expansion enclosure (JBOD)		JB 3016 JB 3060	
SAS expansion ports (per controller)		1 x 12Gb SAS port	
Cache backup techniques		Super capacitor + Flash module	
Supported drives[1]		• 2.5" SATA/SAS SSD • 2.5" 10K/15K RPM SAS HDD • 3.5" 7200 RPM NL SAS HDD	
Power & Cooling		Power supply: Redundant/hot-swappable 460W x 2; Voltage and Frequency: 100-240 Vac, 50-60Hz	
Green design		•80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down	
RAID configurations		• RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 • Up to 32 logical drives and 64 partitions per logical volume	
Max.number of partitions supported		Up to 2048(LUNs)	
Max.mappable LUNs per system		4000	
Regulatory[2]		• Safety : UL, BSMI, CB, EAC • Electromagnetic Compatibility : CE, BSMI, FCC, KC	

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Data Service

Local Replication[3] (Standard license is included by default and advanced is an optiona license)	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 128 / Advanced License: 4096
	Volume Copy/Mirror	Replication pairs per source volume Replication pairs per system	Standard License: 4 / Advanced License: 8 Standard License: 16 / Advanced License: 256
Thin Provisioning (default included)	" Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
Self-encrypting drives	Unique factory encryption secures data plus makes deletion simple and complete		
Remote Replication[3] (optional license)	Replication pairs per source volume: 8 Replication pairs per system: 64		
Automated Storage Tiering (optional license)	Two(2) or four(4) storage tiers based on drive types SSD supports		
SSD Cache (optional license)	• Accelerating data access for random read-intensive environments, such as OLTP • Supports up to four SSDs per controller • Recommended DIMM capacity for SSD Cache pool: DRAM:4GB Max SSD Cache Pool Size: 400GB DRAM:8GB Max SSD Cache Pool Size: 800GB DRAM:16GB Max SSD Cache Pool Size: 1,600GB DRAM:32GB Max SSD Cache Pool Size: 3,200GB DRAM: 64GB Max SSD Cache Pool Size: 6,400GB DRAM:128GB Max SSD Cache Pool Size: 6,400GB DRAM: 256GB Max SSD Cache Pool Size: 6,400GB		

Availability and Reliability

Redundant, hot-swappable hardware modules
Multi-pathing support (EonPath); Device mapper support
Cache backup technology: protects cached data during power outage by flushing data into flash memory
Port trunking / link aggregation (IEEE 802.3ad), fail-over, jumbo frame

Management

SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH

Notification

Email, SNMP traps

OS support

Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 , Microsoft Windows Hyper-V, Red Hat Enterprise, Linux, SUSE Linux
Enterprise, Sun Solaris, Mac OS X, HP-UX[2], IBM AIX[2], VMware, Citrix XenServer, OpenStack Cinder

Service and support [1]

Standard service	3-year limited hardware warranty and 8x5 phone, web, and email support (Batteries are covered under warranty for 2 years)
Upgrade/extension options	Replacement part dispatch on the next business day (up to 5 years) Advanced service: 9x5 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years

1. All EonStor DS systems ship with standard service. Extended service terms may vary by region.
2. Limited support. Check for detailed information.
3. The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote synchronous/local volume pairs.

Available model

	DS 4016RU Gen2	DS 4016SU Gen2	DS 4024RUB Gen2	DS 4024SUB Gen2
Available model	ESDS 4016RUC	ESDS 4016SUC	ESDS 4024RUCB	ESDS 4024SUCB

	DS 4016R Gen2	DS 4016G Gen2	DS 4024RB Gen2	DS 4024SB Gen2
Available model	ESDS 4016R2C	ESDS 4016G2	ESDS 4024R2CB	ESDS 4024S2CB

	DS 4024R Gen2	DS 4024S Gen2
Available model	ESDS 4024R2C	ESDS 4024S2C