



PSS-584X Series SAN Storage

Enterprise Class 5U 84 Bay Rackmount
Video Recording Storage

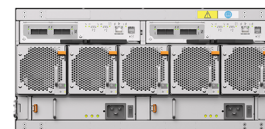
Simple, Fast, Affordable.

The Simple, fast and affordable SAN storage platforms are optimized to run a variety of mixed workload applications, physical and virtual for Small to Enterprise businesses.

PSS-584X storage implements a dual-active controller architecture, 12GB/sec read, and 10GB/sec write throughput and uses a 12Gb SAS backend Protocol for rapid capacity expansion.

Key Features

- SAN Storage
- Dual Controller
- Scalable Up to 8064TB of RAW Storage
- Supports Up to 2016TB per 5U Chassis
- RAID 6, 10 and ADAPT
- Redundant Power
- 5 Year On-Site, NBD, Keep Your Hard Drive Warranty



PSS-584X Series SAN Storage

Enterprise Class 5U 84 Bay Rackmount Video Recording Storage

PSS-584X Series SAN Storage	
Chassis Overview	
Chassis Format	All-in One Dual Controllers, internal drive bays, networking and with expansion options.
Rack Size	5U
Controllers	2 hot-swappable per Chassis (dual-active)
Processor	Intel Xeon Processor
Internal Storage	84x3.5" drive bays
System Memory	48GB Per System
Network, Expansion Enclosure and I/O	
Host Interface	*FC, iSCSI (Optical or Base T), SAS (Refer Item description for more details in the Quote)
Max 32Gb FC Ports	8 per array (support auto-negotiate to 16Gb)
Max 25Gb iSCSI Ports	8 SFP+ or SF28 ports per array
Max 10Gb iSCSI Ports	8 Base T Ports per array (only supports auto negotiate to 1Gb)
Max management ports	2 per array (1Gb BASE-T)
Disk Expansion protocol	12Gb SAS
Disk Interface expansion ports	2x 12Gb SAS (wide-Port) per array (1 port per controller) Up to 3 5U Expansion enclosures per 5U base array
Mechanical	
Management support	PowerValut Manager HTML5 GUI element manager, CLI, OpenManager Enterprise 3.0
Supported host OS	Windows Server 2022, 2019, 2016 RHEL 9.2, 8.8, 8.2 and 7.8 SLES 15.2 and 12.5 VMware 8.0 U1, 7.0 and 6.7 Citrix XenServer 8.x and 7.x
Data Optimization	
Auto-tiering	Up to 3 primary (media-base) tiers
RAID Support	RAID 6, 10 or ADAPT RAID; any combination of RAID levels can exist in single array
ADAPT RAID	Distributed erasure coding that reduces rebuild times when drive failures occur
Thin provisioning	Active by default on all volumes, operates at full performance across all features
Snapshots	1024 maximum re-direct-on-write snapshots per array
Data Protection, Disaster Recovery, Security	
Business Continuity	VMware Site Recovery Manager
Data-at-rest encryption	Self-encrypting drives (SEDs) in SSD or HDD formats, Full Disk Encryption (FED) based on AES-256 Drives certified to FIPS 140-2 Level 2
Key manager	Internal controller key management

Expansion Capacity	
Expansion enclosures	84x3.5 Drives bays (12Gb SAS)
Max raw capacity per base	2016TB
Storage media	NL-SAS drives NLSAS 7.2K 3.5" - 8TB, 12TB, 16TB, 20TB, 24TB
MECHANICAL/ELECTRICAL	
Form Factor	5U
Power Supply	2x2200W (100-240VAC) for Main Head End 2x2200W (100-240VAC) for Expansion Units
Operating Temperature	(Min) 41°F – (Max) 95°F (Min) 5°C – (Max) 35° C
Operating Humidity	8% ~ 85% (non-condensing)
Heat Dissipation	7507 Max BTU/hr
Dimensions (HxWxD)	HE HxWxD: 8.75" (222.3mm) x 19.01" (483mm) x 38.62" (981mm) EX HxWxD: 8.75" (222.3mm) x 19.01" (483mm) x 38.31" (974.7mm)
Max. Weight	HE: 298 lbs. (135Kg) EX: 287 lbs. (130KG)
Warranty	5 Years On-Site, Next Business Day, Keep your Hard Drive Warranty

Ordering Model Codes (SKU' s) for Head End 12TB Drives

Models	
PSS-HE-584X-336-12	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 28x12TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-504-12	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 42x12TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-672-12	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 56x12TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-840-12	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 70x12TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1008-12	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 84x12TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive

Ordering Model Codes (SKU' s) for Expansion 12TB Drives

Models	
PSS-EX-584X-336-12	SAN Expansion 5U 84Bay, 28x12TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-504-12	SAN Expansion 5U 84Bay, 42x12TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-672-12	SAN Expansion 5U 84Bay, 56x12TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-840-12	SAN Expansion 5U 84Bay, 70x12TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1008-12	SAN Expansion 5U 84Bay, 84x12TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.

Ordering Model Codes (SKU' s) for Head End 16TB Drives

Models	
PSS-HE-584X-448-16	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 28x16TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-672-16	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 42x16TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-896-16	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 56x16TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1120-16	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 70x16TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1344-16	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 84x16TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive

Ordering Model Codes (SKU' s) for Expansion 16TB Drives

Models	
PSS-EX-584X-448-16	SAN Expansion 5U 84Bay, 28x16TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-672-16	SAN Expansion 5U 84Bay, 42x16TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-896-16	SAN Expansion 5U 84Bay, 56x16TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1120-16	SAN Expansion 5U 84Bay, 70x16TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1344-16	SAN Expansion 5U 84Bay, 84x16TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.

Ordering Model Codes (SKU' s) for Head End 20TB Drives

Models	
PSS-HE-584X-560-20	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 28x20TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-840-20	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 42x20TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1120-20	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 56x20TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1400-20	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 70x20TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1680-20	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 84x20TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive

Ordering Model Codes (SKU' s) for Expansion 20TB Drives

Models	
PSS-EX-584X-560-20	SAN Expansion 5U 84Bay, 28x20TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-840-20	SAN Expansion 5U 84Bay, 42x20TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1120-20	SAN Expansion 5U 84Bay, 56x20TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1400-20	SAN Expansion 5U 84Bay, 70x20TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1680-20	SAN Expansion 5U 84Bay, 84x20TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.

Ordering Model Codes (SKU' s) for Head End 24TB Drives

Models	
PSS-HE-584X-672-24	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 28x24TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1008-24	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 42x24TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1344-24	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 56x24TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-1680-24	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 70x24TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive
PSS-HE-584X-2016-24	SAN Head Unit 5U 84Bay with Dual controller, 48GB Memory Per System, 84x24TB SAS 12Gbps, 7.2k Drives, 10Gb Base-T 8 Port 2x2200W PSU, 5years Warranty Keep your Hard drive

Ordering Model Codes (SKU' s) for Expansion 24TB Drives

Models	
PSS-EX-584X-672-24	SAN Expansion 5U 84Bay, 28x24TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1008-24	SAN Expansion 5U 84Bay, 42x24TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1344-24	SAN Expansion 5U 84Bay, 56x24TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-1680-24	SAN Expansion 5U 84Bay, 70x24TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.
PSS-EX-584X-2016-24	SAN Expansion 5U 84Bay, 84x24TB SAS 12Gbps, 7.2K Drives, 12Gb HD Mini to HD Mini SAS Cable, 2x2200W PSU, 5years Warranty keep your Hard drive.

- Design and Specifications are subject to change without notice
- For HVME Projects Only
- Need to choose the right Host/Network interface (FC, 25Gbps, 10Gb iSCSI)
- Model Identification

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- P – Professional
- S – SAN
- S – Storage
- HE- Head End Main Control Unit
- EX- Expansion Unit
- 5 – No. of U (2-2U, 5-5U)
- 84- No of Bay (12- 12 Bay, 84- 84Bay)
- X- Dual Controller
- 2016- Total Storage capacity can support
- 24 – HDD Type.

— POWERED BY —


Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com/ar/
Hanwha Vision is formerly known as Hanwha Techwin.