Your Team &
Team PROMISE
Ultimate
Rich Media
Collaboration

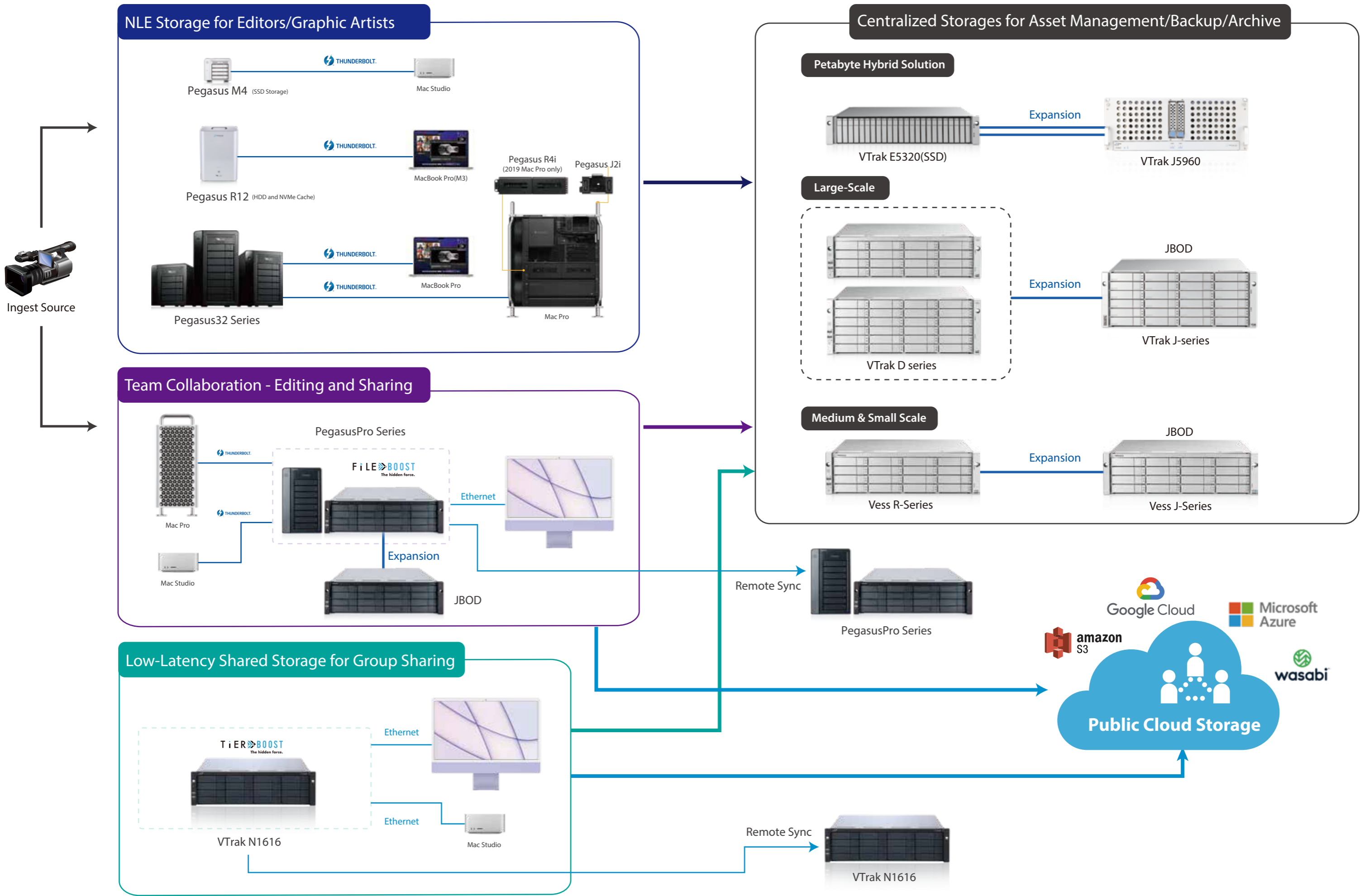# Buyer's Quick Guide

PROMISE Rich Media Solutions

Optimized for Rich Media Workflow

PROMISE varied Rich Media product line ranges from portable Pegasus Thunderbolt™ RAID devices suitable for on-site usage, to efficient PegasusPro Thunderbolt™ and NAS shared storage systems designed for team collaboration, and finally, large-scale VTrak unified storage systems purpose-built for collaborative post-production and digital asset archiving.

PROMISE's rich media solutions boast robust high-speed performance, facilitating large volumes of footage from multiple cameras to be offloaded to a Pegasus device on-site. Subsequently, the raw footage can be seamlessly transferred to a RAID-protected storage network system for post-production.

This guide features specifications and product descriptions for the entire current line of Rich Media post production subsystems including the latest additions, PegasusPro and VTrak N-Series high performance NAS systems engineered specifically for post production workflow efficiency.

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Contact us

Solution for Post-Production Workflow

PROMISE TECHNOLOGY

NLE Storage for Editors/Graphic Artists

Ingest Source

THUNDERBOLT
Pegasus M4 (SSD Storage) — Mac Studio

THUNDERBOLT
Pegasus R12 (HDD and NVMe Cache) — MacBook Pro(M3)

Pegasus R4i (2019 Mac Pro only) Pegasus J2i

THUNDERBOLT
Pegasus32 Series — MacBook Pro

THUNDERBOLT
Mac Pro

Team Collaboration - Editing and Sharing

PegasusPro Series

THUNDERBOLT
Mac Pro

FiLE BOOST
The hidden force.

Ethernet

THUNDERBOLT
Mac Studio

Expansion
JBOD

Remote Sync
PegasusPro Series

Low-Latency Shared Storage for Group Sharing

TiER BOOST
The hidden force.

Ethernet

VTrak N1616

Ethernet
Mac Studio

Remote Sync
VTrak N1616

Centralized Storages for Asset Management/Backup/Archive

Petabyte Hybrid Solution

VTrak E5320(SSD) — Expansion — VTrak J5960

Large-Scale

VTrak D series — Expansion — JBOD VTrak J-series

Medium & Small Scale

Vess R-Series — Expansion — JBOD Vess J-Series

Public Cloud Storage

Google Cloud
Microsoft Azure
amazon S3
wasabi

Post Production Edit

Editorial development is the crucial phase where your project takes shape. During this stage, the raw media you've ingested is transformed into a polished program. Some projects are entirely crafted within editing applications, allowing you to create titles, apply effects, and handle sound design directly in your editing sequence.

As you progress, you have the flexibility to send specific audio clips from the Timeline directly to Soundtrack. This enables tasks such as noise elimination, creating ambient noise to fill gaps, and applying equalization adjustments on a clip-by-clip basis. Whether you opt for a single application or multiple ones, all elements of the program converge in your edited sequence, serving as a guide for your editorial decisions as you strive to finalize the content.

A post-production team can greatly benefit from utilizing editing applications to efficiently manage project and media files. This can be achieved through thunderbolt storage, storage area network (SAN) storage, or Network Attached Storage (NAS). Promise Technology offers a comprehensive product portfolio designed to facilitate easy-to-use Thunderbolt storage, high-performance shared SAN storage, and collaborative shared storage solutions for group editing.
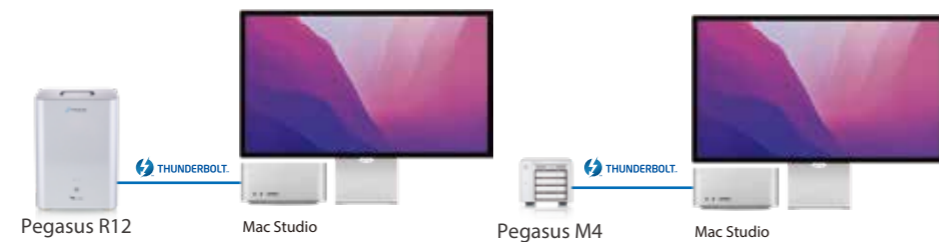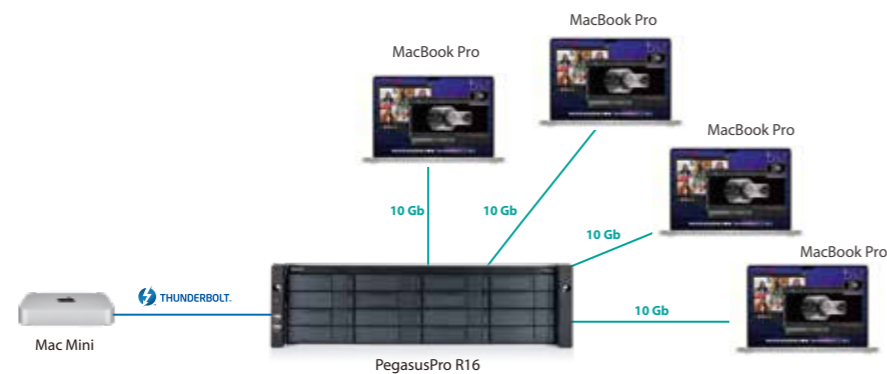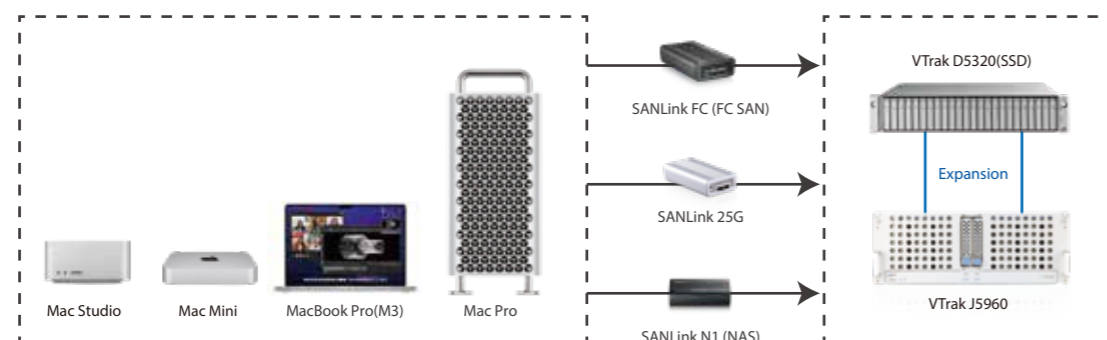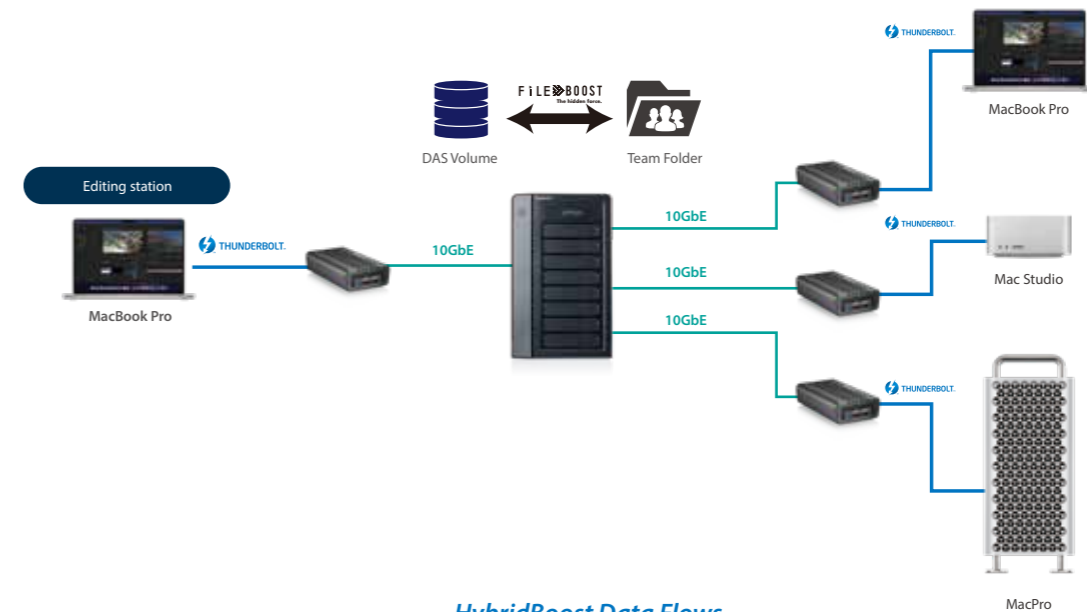
Content Review, Finishing and Mastering

If you're working on a project for a client, receiving frequent and specific feedback is crucial. During supervised sessions, you can easily showcase your project directly from the Timeline. However, there are instances when you may find yourself working independently, collaborating with clients who are geographically distant, or aiming to share a version of the program for screening at another location.

Promise storage solutions offer various methods for delivering individual clips or entire sequences to clients for remote viewing. This can be accomplished through fileboost technology, facilitating the transfer of files from Thunderbolt Direct Attached Storage (DAS) volumes to shared Network Attached Storage (NAS) volumes. Alternatively, Hybridboost technology provides options for syncing, backing up, and archiving content to public cloud services or other storage devices located remotely.
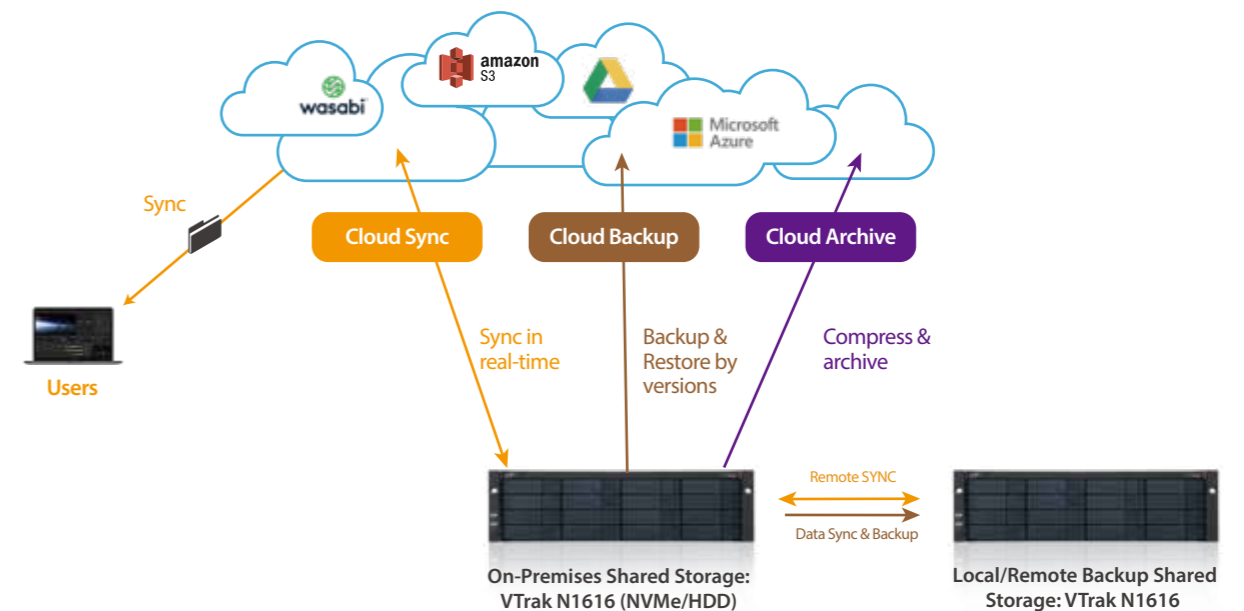
After a program's story has been edited and reviewed, it's time to give the program its final polish and tweak it to conform to the highest-quality version of the original source media available. The mastering process may involve assembling a much longer list of deliverable media files. Promise storage solutions have optimized firmware, allowing access to media in different formats to ensure reliability, while the compressor facilitates the format-conversion process.

(Reference: Apple Post Product Workflow Explained)

Thunderbolt™ Storage

Pegasus R12   Mac Studio   Pegasus M4   Mac Studio

Thunderbolt™ / NAS Shared Storage

MacBook Pro
MacBook Pro
MacBook Pro
MacBook Pro
10 Gb   10 Gb   10 Gb   10 Gb
Mac Mini
PegasusPro R16

SAN/NAS Hybrid Storage

SANLink FC (FC SAN)
SANLink 25G
SANLink N1 (NAS)
VTrak D5320(SSD)
Expansion
VTrak J5960
Mac Studio   Mac Mini   MacBook Pro(M3)   Mac Pro

FileBoost Data Flows

FILE BOOST
DAS Volume   Team Folder
Editing station
MacBook Pro
10GbE
10GbE
10GbE
10GbE
MacBook Pro
Mac Studio
MacPro

HybridBoost Data Flows

wasabi   amazon S3   Microsoft Azure
Sync
Cloud Sync   Cloud Backup   Cloud Archive
Users
Sync in real-time
Backup & Restore by versions
Compress & archive
Remote SYNC
Data Sync & Backup
On-Premises Shared Storage: VTrak N1616 (NVMe/HDD)
Local/Remote Backup Shared Storage: VTrak N1616

All-flash Thunderbolt™ Storage
Thunderbolt™ Storage

Pegasus Series

	Pegasus M4	Pegasus R12	Pegasus32 Series
Shipping Capacity	SSD: 8TB/16TB/32TB	HDD: 60TB/96TB/108TB /168TB/240TB	HDD: 16TB/32TB /40TB/48TB/72TB/80TB /84TB/96TB/144TB
Support Interface	2x Thunderbolt™ 3 (40Gb/s) & USB 3.2 Gen 2 (10Gb/s) (Port A only)	2xThunderbolt™ 4 (40Gbps) & USB4 40Gbps	2x Thunderbolt™ 3 (40Gb/s) & USB 3.2 Gen 2 (10Gb/s) (Port A only)
Number of Drives	4	12	4/6/8
Drive Interface	6Gb SATA SSD	6Gb SATA HDD (Cache)NVMe M.2 SSD x2	6Gb SATA HDD / 6Gb SATA SSD
Management Interface	PROMISE Utility Pro, CLI	PROMISE Utility Pro, CLI	PROMISE Utility Pro, CLI
RAID Level	RAID 0, 1, 5, 6, 10, 50, 60, Pass-through mode	RAID 0, 1, 5, 6, 10, 50, 60, Pass-through mode	RAID 0, 1, 5, 6, 10, 50, 60, Pass-through mode
Support OS	MacOS 12.4 and above, Windows 10 or later	Mac OS 13 and above, Windows 10 or later	MacOS 10.14 and above Windows 10 or later
DP display support	(4K x 2) or (5K x 1) or (8K x 1) *DP 1.4 USB3	4K x2) or (6K x2) or (8K x1) * DP1.4a USB4	(4K x 2) or (5K x 1) or (8K x 1) *DP 1.4/HDMI 2.0
Power Charging	Port A: 15W, Port B: 15W	Total could provide up to 85W on both ports	Port A: 85W, Port B: 15W
Cable Included	0.7m 40Gb/s passive Thunderbolt™ 3 cable	0.7m 40Gb/s passive Thunderbolt™ 4 cable	0.7m 40Gb/s passive Thunderbolt™ 3 cable
Power Supply Unit	1x 120W	1x 350W	1x 250W
Thunderbolt™ Expansion	Yes	Yes	Yes
Warranty	3 Years	3 Years	3 Years

Thunderbolt™ / NAS Shared Storage
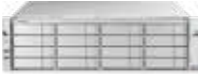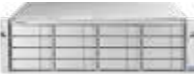
PegasusPro Series

	PegasusPro R8	PegasusPro R16
Shipping Capacity	HDD: 32TB, 64TB,128TB,144TB SSD: 15.36TB, 30.72TB	HDD: 128TB, 256TB, 288TB SSD: 61.44TB
Support Interface	2xThunderbolt™ 3 (40Gb/s), 4 port 10GbE Base-T, 2 port 1GbE, 4 USB3.2/USB2.0	
Number of Drives	8	16
Drive Interface	6Gb SATA HDD & SSD	
Management Interface	PROMISE Utility Pro, Web based management-WebPAM Insight, CLI	
RAID Level	RAID 0, 1, 5, 6, 10, 50, 60	
Support OS	MacOS 10.15.7 and above, Windows 10 or later	
NAS Features	Supported Network Protocols- SMB/CIFS, FTP, NFS, WebDAV, Permission management	
Data Service	Cloud Backup	Cloud Sync, Cloud Backup, Cloud Archive, Remote sync
Cable Included	2m 40Gb/s Thunderbolt™ 3 Active Cable	
Power Supply Unit	1 x 350W	2 x 550W
Thunderbolt™ or SAS Expansion	Yes	Yes
Warranty	3 Years	3 Years

Thunderbolt™ Adapter

SANLink Series

	SANLink 25G	SANLink3 N1
External Ports	Dual ports 25 Gigabit Ethernet	Single NBASE-T Ethernet Port
Thunderbolt™ port	2x Thunderbolt™ 3 (40Gbps) ports	Single Thunderbolt™ 3 (40 Gbps) Port
Ethernet Transfer Rates	2800MB/s at 25Gb 1250MB/s at 10Gb	1250MB/s at 10Gb 625MB/s at 5Gb 312.5MB/s at 2.5Gb 125MB/s at 1Gb
Thunderbolt™ Transfer Rates	40 Gbps	40 Gbps
Host Bus Type	Dual 40Gbps Thunderbolt™ 3 port	Single 40 Gbps Thunderbolt™ 3 port
Protocols	IEEE Std 802.3ae 10 GB 25G/10G SFP28 10G SFP+	IEEE 802.3an - 10GBASE-T IEEE 802.3bz - 2.5G/5GBASE-T IEEE 802.3ab - 1000BASE-T IEEE 802.3u - 100BASE-TX
Thunderbolt™ Expansion	Yes	-
OS Support	Mac OS X, 12, Windows 10 or later	Mac OS X, 10.13.3, Windows 10 or later
Power Charging	-	-
Cable Included	0.7m 40Gb/s passive Thunderbolt™ 3 cable	0.5m 40Gb/s passive Thunderbolt™ 3 cable
Power Supply Unit	1 x 60W	-
Dimensions	45.7 x 162.6 x 91.4 mm	24 x 96.4 x 48 mm
Warranty	3 Years	3 Years

PROMISE Rich Media Solution Lineup

NVMe/HDD Shared Storage

VTrak N

	VTrak N1616
Form Factor	3U
Support Interface	8 Port 10G Base-T, 8-Port 10G SFP+, 4 Port 25G SFP28
Number of Drives	16
SSD Interface	U.2 NVMe
Hard Drive Interface	6Gb SATA HDD
Management Interface	PROMISE Utility Pro, Web based management-WebPAM Insight, CLI
RAID Level	0, 1, 5, 6, 10, 50, 60
Supported OS	MacOS 10.15 above, Windows 10 or later
NAS Features	Supported Network Protocols-SMB/CIFS, FTP, NFS, WebDAV, Permission Management
Data Services	Data Tiering (U.2 NVMe/SSD/HDD Tiering) Cloud Sync, Cloud Backup, Cloud Archive, Remote sync
SAS Expansion	-
Max JBOD Units Supported	-
Max Hard Drive Supported	16
Power Supply Unit	2 x 550W
Warranty	3 Years

Midrange Unified Storage

Vess Series

	Vess R3600i/R3600ti/ R3600xi/R3604fi	Vess J3600s/d
Form Factor	3U	
Support Interface per Controller	1x Quad port 1GbE,1x Dual port 10GbE SFP+/10GBASE-T/1 X Quad port 16GB FC, 1 x 12G SAS-wide port over SFF-8644	1 x 12G SAS-wide port over SFF-8644
Number of Controller	1/2	
Number of Drives	16	
Hard Drive Interface	6G or 12G NL-SAS HDD and SSD 6G SATA HDD and SSD with BlackJack	
Management Interface	1 x RJ-45 1Gb Ethernet per controller 1 x RJ-11 Serial Port per controller	1 x RJ-11 Serial Port per IOM
RAID Levels	0, 1, 5, 6, 10, 50, 60	
Supported OS	Windows Server 2008, 2012, 2016, 2019, 2022, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1	
NAS Features	SMB/CIFS (Windows, MAC), NFS (Linux/Unix), FTP, WebDAV	-
Data Services	(Advanced Pool) Thin Provision, Snapshot, SSD Cache, Thin Clone, Thick Clone	-
SAS Expansion	Yes	
Max JBOD Units Supported	12	
Max Hard Drive Supported	208	
Power Supply Unit	1+1 550W 80 PLUS Platinum	
Warranty	3 Years	

Enterprise FC SAN Storage

VTrak E Series

	E5000f / 5600f / 5800f
Form Factor	2U/3U/4U
Support Interface per Controller	4-port 16 Gb FC SFP, 2x2 12 Gb SAS standard Mini SAS HD ports (SFF-8644)
Number of Controller	2
Number of Drives	12 / 16 / 24
Hard Drive/SSD Interface	6/12 Gb SAS, 6 Gb SATA HDD and SSD
Management Interface	Web Based management using Web, CLI, SSH, SNMP
Management Port	RJ45 1Gb Ethernet and RS232 for Management ports
RAID Levels	0, 1, 5, 6, 10, 50, 60
Supported OS	Windows Server 2008, 2012, 2016, 2019, 2022, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1
SAS Expansion	Yes
Max JBOD Units Supported	9
Max Hard Drive Supported	240
Power Supply Unit	1+1 800W 80 Plus Gold
Hot Swappable FRU	Yes
Warranty	3 Years

Enterprise All Flash Storage

VTrak D Series

	D5320x / D5320fx
Form Factor	2U
Support Interface per Controller	2-port 10GSFP+, 4-port 16Gb FC, 2x2 12Gb SAS Mini-SAS (SFF-8644)
Number of Controller	2
Number of SSD	24
SSD Interface	6/12 Gb SAS, 6 Gb SATA HDD and SSD
Management Interface	Web Based management using Web, CLI, SSH, SNMP
RAID Levels	0, 1, 5, 6, 10, 50, 60
Supported OS	Windows Server 2008,2012,2016,2019,2022 HyperV, OS X 10.x, RHEL 6.5 to 7.2 SLES 11, VMWare ESX v6.x, Citrix 7.x/8.x and above
NAS Features	SMB/CIFS (Windows, MAC), NFS (Linux/Unix), FTP, WebDAV
Data Services	(Advanced Pool) Thin Provision, Snapshot, SSD Cache Thin Clone, Thick Clone, Local Replication Compression
SAS Expansion	Yes
Max JBOD Units Supported	15
Max Hard Drive Supported	512
Power Supply Unit	1+1 595W 80 Plus Gold
Warranty	3 Years

PROMISE Rich Media Solution Lineup

Enterprise Unified Storage

VTrak D Series

	D5300x / D5300fx	D5600x / D5600fx	D5800x / D5800fx
Form Factor	2U	3U	4U
Support Interface per Controller	2-port 10GSFP+, 4-port 16Gb FC, 2 x 2 12Gb SAS Mini-SAS (SFF-8644)	2-port 10GSFP+, 4-port 16Gb FC, 2 x 2 12Gb SAS Mini-SAS (SFF-8644)	2-port 10GSFP+, 4-port 16Gb FC, 2 x 2 12Gb SAS Mini-SAS (SFF-8644)
Number of Controller	2	2	2
Number of Drives	12	16	24(LFF) + 4(SFF)
Hard Drive/SSD Interface	12/6 Gb SAS, 6 Gb SATA HDD and SSD		
Management Interface	Web Based management, CLI, SSH, SNMP		
RAID Levels	0, 1, 5, 6, 10, 50, 60		
Supported OS	Windows Server 2008,2012,2016,2019,2022 HyperV, OS X 10.x, RHEL 6.5 to 7.2 SLES 11, VMWare ESX v6.x, Citrix 7.x/8.x and above		
NAS Features	SMB/CIFS (Windows, MAC), NFS (Linux/Unix), FTP, WebDAV		
Data Services	(Advanced Pool)Thin Provision, Snapshot, SSD Cache, Thin Clone Thick Clone, Local Replication Compression		
SAS Expansion	Yes		
Max JBOD Units Supported	15		
Max Hard Drive Supported	512		
Power Supply Unit	1+1 595W 80 Plus Gold	1+1 800W 80 Plus Gold	1+1 800W 80 Plus Gold
Warranty	3 Years	3 Years	3 Years

High Density Expansion Solution

VTrak J

	VTrak J5960
Form Factor	4U
Support Interface per IOM	6 Mini SAS HD connectors (SFF-8644)
Number of IOM	1/2
Number of Drives	60
Hard Drive/SSD Interface	12/6 Gb SAS, 6 Gb SATA HDD and SSD
Management Interface	Command Line Interface (CLI) via Serial Port, Ethernet Port (SSH, Telnet)
Management Protocol	ANSI T10 SES, SMP (SES over in-band SAS) Persistence Error Logging with NVRAM, VPD (Vital Product Data) on Chassis and FRUs
SAS Expansion Ports	Yes
Max JBOD Units Supported	8
Max Hard Drive Supported	512
Power Supply Unit	1+1 1200W 80 PLUS Platinum
Hot Swappable FRU	HDD/IOM/PSU/FAN
Power Conversion Efficiency	Load 10% Eff 86% , Load 20% Eff 91% , Load 50% Eff 94% , Load 100% Eff 91% Eff for 230Vac
Dimensions (HxWxD)	177 x 445 x 666 (mm)
Warranty	3 Years

Enterprise Expansion Solution

VTrak J Series

	VTrak J5300	VTrak J5320	VTrak J5600	VTrak J5800
Form Factor	2U	2U	3U	4U
Support Interface per IOM	2x2 12Gb SAS Mini-SAS (SFF-8644)	2x2 12Gb SAS Mini-SAS (SFF-8644)	2x2 12Gb SAS Mini-SAS (SFF-8644)	2x2 12Gb SAS Mini-SAS (SFF-8644)
Number of IOM	2	2	2	2
Number of Drives	12 (3.5")	24 (2.5")	16 (3.5")	24 (3.5")
Hard Drive/SSD Interface	12/6 Gb SAS, 6 Gb SATA HDD and SSD			
Management Interface	CLI through out--of--band RS232 serial port			
Management Features	full SAS domain topology management T-10 based zoning support SMP – SAS Management Protocol In-band access to Expander and PHY information Statistic counters and performance monitors SES EM– SES Enclosure Management (ANSI T10 SES 2 Compliant) SCSI SES command set over virtual SSP device Wake-on-SAS support, Wake-on-LAN support			
SAS Expansion Ports	Yes			
Max JBOD Units Supported	8			
Max Hard Drive Supported	512			
Power Supply Unit	1+1 595W 80 Plus Gold	1+1 595W 80 Plus Gold	1+1 600W 80 Plus Gold	1+1 600W 80 Plus Gold
Hot Swappable FRU	HDD/IOM/PSU/Fan	HDD/IOM/PSU/Fan	HDD/IOM/PSU/Fan	HDD/IOM/PSU/Fan
Power Conversion Efficiency	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range
Dimensions (HxWxD)	88 x 446.7 x 507 (mm)	88 x 446.7 x 507(mm)	131 x 446.7 x 507(mm)	174.4 x 446.7 x 507(mm)
Warranty	3 Years	3 Years	3 Years	3 Years