Tiger Technology

Turnkey Solutions for Media & Entertainment

Save money & time with storage & software for advanced media workflows all in one Tiger Box.

Tiger Box appliances are state-of-the-art, all-in-one, high-performance shared storage systems that offer the simplicity of NAS and the performance characteristics of a true SAN. Combined with the Tiger Technology software modules, they are **complete workflow systems** allowing a flexible start-to-finish production.
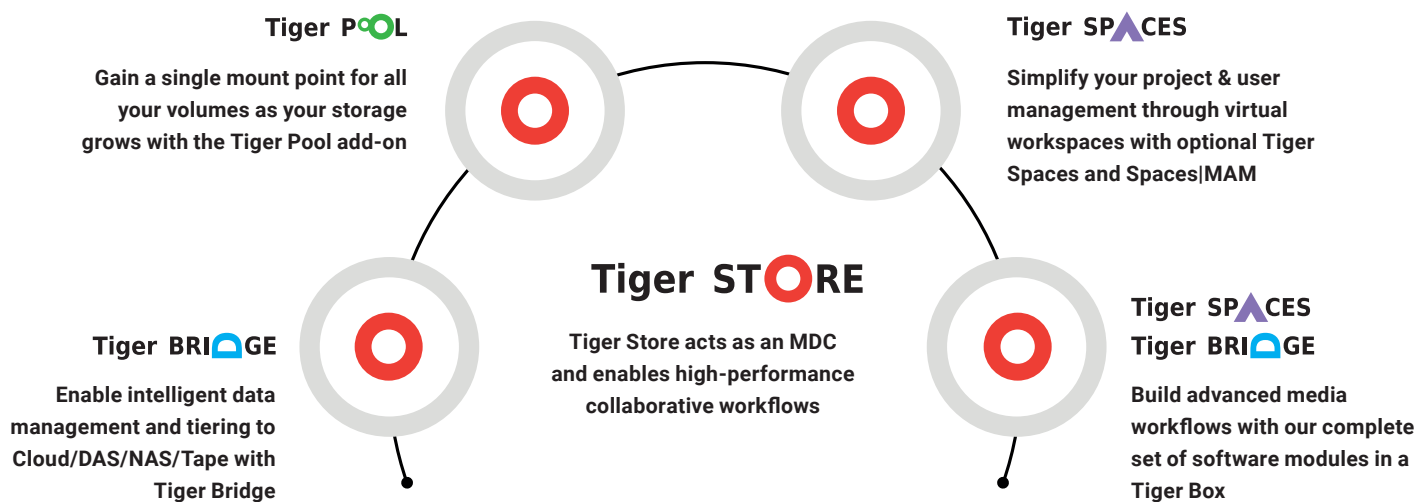
The wide variety of Tiger Box appliances (1U, 3U and 4U) gives you a choice to best suit your production needs. Each Tiger Box can accommodate up to four Tiger Expansion chassis (3U16 or 4U24) allowing you to **scale up to petabytes** of usable storage capacity.
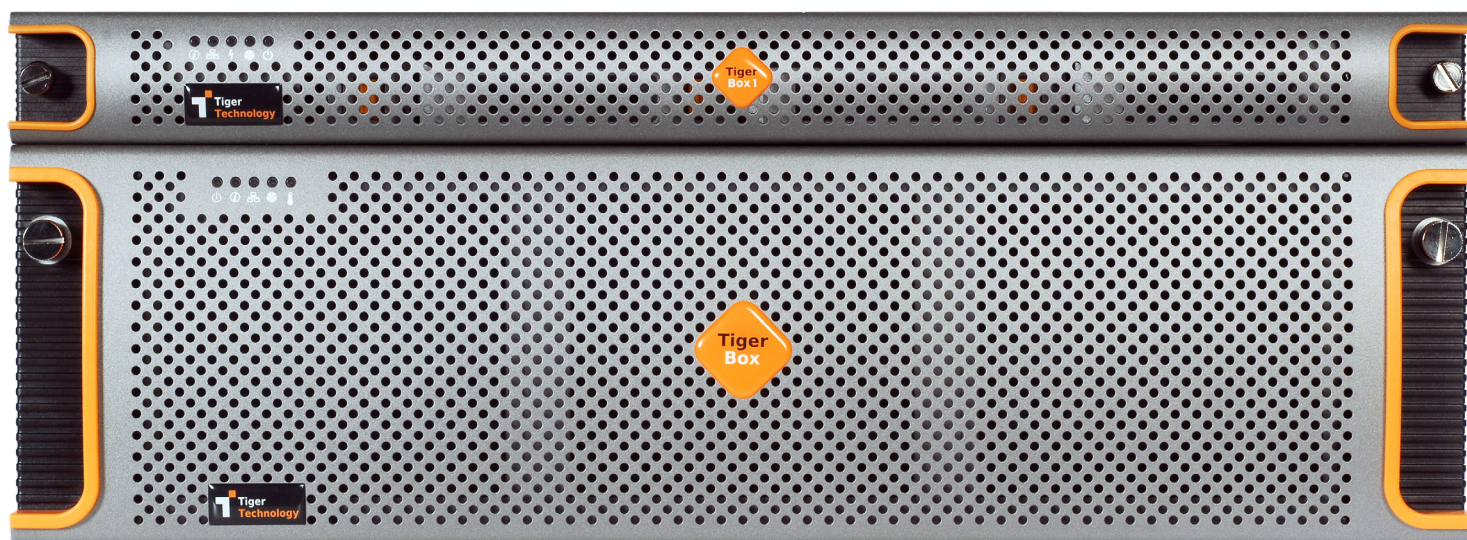
The appliances are rack-mountable and include the Tiger Store software, a metadata controller for highly optimized storage, which can be accessed by client computers via **ethernet** or **fibre channel** (with optional Store|SAN), directly or through a switch.

The Tiger Expansion Chassis are a natural addition to your Tiger Box, allowing you to easily expand its storage capacity. With the Tiger Pool option you can merge the main chassis volume and the volume(s) of all connected expansion chassis into a single virtual volume - a storage pool - that users can access via a single mount point. With the Tiger Bridge software module, the Tiger Expansions can also be used as 2nd-tier storage.

The optional Avid FS feature available with Tiger Store or Tiger Spaces allows you to have the advantage of a Bin Locking workflow in an Avid MC environment.

Each of our Tiger Serve controllers comes with the pre-configured Tiger Store file system sharing software. Configure Tiger Serve based on your studio needs by adding any of our other software modules for media workflows. Benefit from renowned 24/7/365 technical support.

Tiger POOL
Gain a single mount point for all your volumes as your storage grows with the Tiger Pool add-on

Tiger SPACES
Simplify your project & user management through virtual workspaces with optional Tiger Spaces and Spaces|MAM

Tiger STORE
Tiger Store acts as an MDC and enables high-performance collaborative workflows

Tiger BRIDGE
Enable intelligent data management and tiering to Cloud/DAS/NAS/Tape with Tiger Bridge

Tiger SPACES
Tiger BRIDGE
Build advanced media workflows with our complete set of software modules in a Tiger Box

Tiger Box | 1U4 & Tiger Box | 1U8

- 1U, 19" rack-mount chassis with excellent anti-vibration and thermal protection
- Tiger Box | 1U4 has 4x 3.5" drive bays for 3.5"/2.5" HDDs or 2.5" SSDs
- Tiger Box | 1U8 has 8x 2.5" drive bays for 2.5" SSDs or 2.5" HDDs

Tiger Box | 1U4 & Tiger Box | 1U8:
- Hot-swappable drives
- 2x PCIe extension slots for client connectivity; up to 8x connectivity ports: 8/16 Gb Fibre Channel and/or 1/10/25/40 GbE for client computers and 16Gb SAS ports for tape libraries
- 2x MiniSAS connections for daisy-chaining up to 4x Tiger Expansion Chassis
- High-performance RAID Controller providing up to 4GB/s RAID speeds; shipped in RAID-5; optional RAID Levels: 0, 1, 5, 6, 10, 50 and 60 with up to 32x disks per RAID group
- Redundant power supply (a failed power module can be replaced while the system is operating)
- Tiger Store software for shared storage management and diagnostics

Tiger Box | 3U16 & Tiger Box | 4U24

- 3U and 4U, 19" rack-mount chassis with excellent anti-vibration and thermal protection
- Tiger Box | 3U16 has 16x 3.5" drive bays for 3.5"/2.5" HDDs or 2.5" SSDs
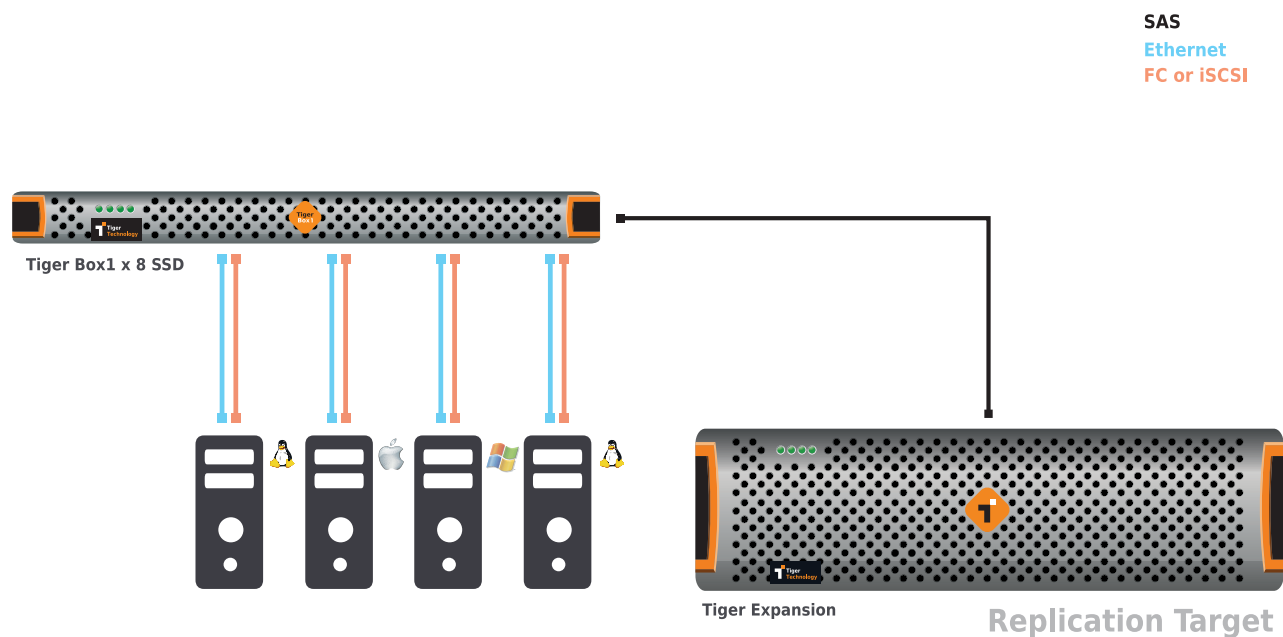- Tiger Box | 4U24 has 24x 3.5" drive bays for 3.5"/2.5" HDDs or 2.5" SSDs

Tiger Box | 3U16 & Tiger Box | 4U24:
- 5x PCIe extension slots for client connectivity; up to 20x connectivity ports: 8/16 Gb Fibre Channel and/or 1/10/25/40 GbE for client computers and 16Gb SAS ports for tape libraries
- 2x MiniSAS connections for daisy-chaining up to 4x Tiger Expansion Chassis
- High-performance RAID Controller providing up to 4GB/s RAID speeds; shipped in RAID-5; optional RAID Levels: 0, 1, 5, 6, 10, 50 and 60 with up to 32x disks per RAID group
- Redundant power supply (a failed power module can be replaced while the system is operating)
- Tiger Store software for shared storage management and diagnostics

Tiger Expansion | 3U16 & Tiger Expansion | 4U24

- 3U and 4U, 19" rack-mount chassis with excellent anti-vibration and thermal protection
- 4x MiniSAS ports for connecting the Tiger expansion chassis to a Tiger Box
- Redundant power supply (a failed power module can be replaced while the system is operating) and hot-swappable redundant PWM cooling fan(s)

Sample: 2-Tier Setup

SAS
Ethernet
FC or iSCSI

Tiger Box1 x 8 SSD

Tiger Expansion

Replication Target

- Client machines connect directly to Tiger Box | 1U8 SSD fast 1st-tier storage.

- Tiger Expansion chassis used for 2nd-tier storage.

"WE HAD TO CHOOSE A PRODUCT THAT WAS GOING TO BE EXTREMELY SCALABLE AND COST-EFFECTIVE, WHICH IS WHY WE CHOSE TIGER. THE LEVEL OF SUPPORT TIGER OFFER IS ONE OF THE BEST IN THE INDUSTRY."

- Daniel Sassen, CTO, ENVY Post Production

ENVY

I/O Options

I/O Options[1]	Performance: Mac/Linux clients[2]	Performance: PC client[2]
4x 1GbE	880 Mbps (110 MB/sec)	880 Mbps (110 MB/sec)
1x 10GbE optical SFP+	6,400 Mbps (800 MB/sec)	8,000 Mbps (1,000 MB/sec)
2x 10GbE copper	6,400 Mbps (800 MB/sec)	8,000 Mbps (1,000 MB/sec)
4x 10GbE optical SFP+	6,400 Mbps (800 MB/sec)	8,000 Mbps (1,000 MB/sec)
2x 40GbE optical QSFP	12,000 Mbps (1500MB/sec)	14,400 Mbps (1800MB/sec)
4x SAS	36,000 Mbps (4500MB/sec)	36,000 Mbps (4500MB/sec)
1x 8GbFC	6,000 Mbps (750 MB/sec)	5,200 Mbps (650 MB/sec)
4x 8GbFC	6,000 Mbps (750 MB/sec)	5,200 Mbps (650 MB/sec)
1x 16GbFC	12,000 Mbps (1,500 MB/sec)	10,400 Mbps (1,300 MB/sec)
4x 16GbFC	12,000 Mbps (1,500 MB/sec)	10,400 Mbps (1,300 MB/sec)

(1) All Fibre Channel and 10GbE optical connections include SFP+ of 10BASE LC-type. The 40GbE connection does not.
(2) Performance per port. These numbers represent read performance measured in our lab using practical test cases and Tiger Client driver. Actual performance may vary in the field based on your applications, motherboard, drivers, HBA, switch, protocol, etc. Note that these numbers are also bound to the total performance capabilities of your storage unit.

Performance Examples

Material				Stream Count[1]				
	Bitrate		Storage	HDD				
Codec	Mbps	MB/sec	Hours/TB	Box | 1U4	Box | 3U16	Box | 4U24	Exp | 3U16[2]	Exp | 4U24[2]
				600-700 MB/sec	3.2-3.4 GB/sec	3.8-4 GB/sec	3.2-3.4 GB/sec	3.8-4 GB/sec
DVCPRO50	50	6.24	46 hrs	50	100	115	100	115
ProRes LT HD	110	13.48	21 hrs	35	80	85	80	85
ProRes HQ HD, Avid DNxHD	220	27.54	10 hrs	20	55	65	55	65
Uncompressed SD	345	43.13	6 hrs 40 min	10	40	45	40	45
RED 5K 8:1	634	79.1	3 hrs 40 min	4	25	30	25	30
3.2K ProRes 3200 x 1800 4444XQ	833	104.17	2 hrs 50 min	3	20	25	20	25
HD 10-bit 4:2:2 Uncompressed	1,178	147.3	1 hr 50 min	2	12	18	12	18
4K ProRes 422HQ 4096 x 3112	1,280	160	1 hr 45 min	2	11	16	11	16
8K F65RAW-SQ	2,520	315	55 min	1	5	7	5	7
2K 10 bit Uncompressed	2,944	368	47 min	1	4	6	4	6

(1) Stream count measured in our lab using a typical video editing application. Please use as ballpark figure. Tiger Technology cannot guarantee you will get the exact same numbers in the field as results will vary based on your particular application, traffic pattern and network topology.
(2) The first expansion chassis added will double the stream count. For example, with ProRes LT HD the total stream count for Tiger Box | 3U16 + Expansion Chassis | 3U16 will equal 160.
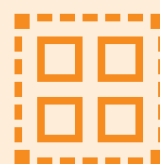
Product Highlights

Shared Storage Management with Tiger Store

Cross-platform Sharing – Mac, Windows, Linux

All-in-one, Fully Pre-configured Solution

Simplified Set-up, Maintenance & Expansion

Project Management with Tiger Spaces (optional)

Data Management & Tiering with Tiger Bridge (optional)

Avid FS Bin Locking (optional)

Hot Swappable Parts

Renowned 24/7/365 Technical Support

Customers in over 120 countries use Tiger Technology solutions to make their data management and project workflows easier. The company has been developing high-speed NAS/SAN file system sharing, virtual volume set and virtual project workspace management, software-only Windows cloud extension technology, and HSM tiering and synchronization solutions since 2003. Tiger enables organizations of any size and scale to manage their digital assets on-premises, in public cloud, or with a hybrid model. Tiger Technology has been identified by Endeavour as one of the foremost cloud technology providers on the market today.

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