

# outpace.io **A series**

The Power and Simplicity  
of Next Generation Ethernet Storage

outpace.io **A series** storage solutions deliver flexible, high performance, scale-out storage designed from the ground up for simplicity and virtualization. outpace.io solution provides lower OPEX and leading price-performance compared to legacy solutions.

## Scale-Out Design

Designed for performance, scalability, and simplicity, outpace.io storage arrays enable a scale-out Ethernet SAN architecture that is ideally suited to virtualization, cloud, and big data environments.



## Building blocks for Ethernet SAN

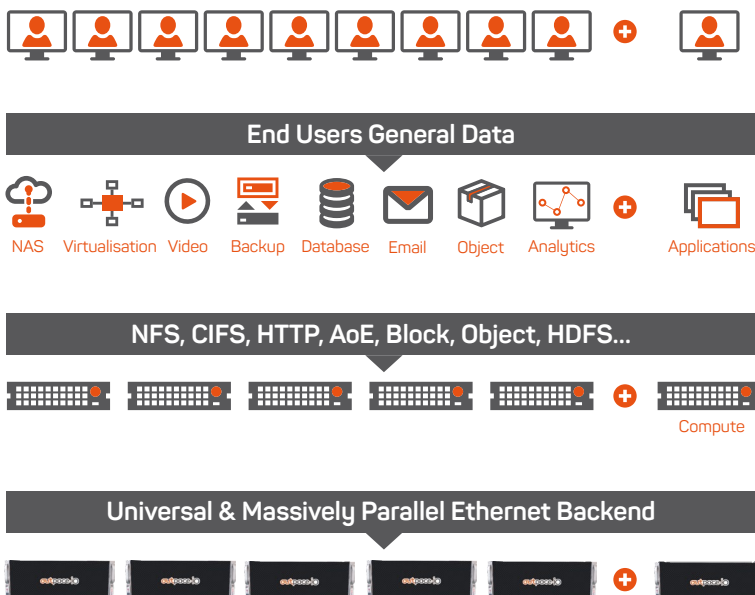
The outpace.io A series provides the foundation for next generation Ethernet storage systems by providing low latency, high bandwidth data transfer between hosts and data on the network.

The outpace.io A series provides JBOD and RAID 0, 1, 5, 6, and 10 with minimal overhead and in a scale out design, to act as the generic Ethernet backend storage for outpace.io partner eco-systems.

## Simplified SAN Management

The simplicity of outpace.io storage makes it easy to manage, because it's easy to understand. outpace.io is a drive connected to your server via Ethernet. That drive may actually be a RAID volume, but it just looks like a local drive to the server. There is no need to learn complicated technology like Fibre Channel. Just add SAS, SSD, SATA or NVMe drives to the outpace.io Storage Appliance and you have all the performance and space you want available for any server attached to the SAN. It's that simple.

## Process



## Key features and benefits

- > Software initiator using standard NICs (no HBA needed)
- > Includes the outpace.io Linux OS distributed storage operating system
- > Supports up to 560 TB of storage per chassis
- > Supports SAS, SSD, SATA or NVMe hot swap drives
- > Includes up to four 10 GbE or two 40 GbE
- > Supports JBOD and raid 0, 1, 5, 6 and 10
- > Storage configuration (meta-data) stored on each drive allows for drive portability, easy migration and shelf upgrade
- > Nice and friendly (linux like) CLI : completion, colors...
- > Secure remote support, so outpace.io support staff can connect on demand
- > Open RestFul APIs for full automation (SDS)
- > Pro-active monitoring and notifications

## outpace.IO A series Functional Specifications

<b>Network interfaces</b>	outpace.IO Linux OS storage appliances are available with quad 10 Gigabit Ethernet or dual 40 GbE. All ports use jumbo Ethernet frames of 9000
<b>RAID Support</b>	JBOD and RAID levels 0, 1, 5, 6, 10 are supported
<b>Automatic LUN Discovery</b>	LUNs are automatically discovered by the host as systems are added to the network
<b>Automatic Multipathing</b>	Automatically load balances read/write I/O across all available ports and paths of the SAN
<b>Single Instance LUN View</b>	A persistent single instance of each LUN is presented to the host system no matter how many network paths are available, eliminating multiple representations of the same LUN
<b>Automatic Congestion Control</b>	Packet queues and retransmissions are automatically adjusted to mitigate network congestion
<b>LUN Masking (*)</b>	A mechanism to control access to stored data using tagged VLAN / IEEE 802.1q
<b>Drive Flexibility</b>	Supports SATA, SAS and SSD drives in the same chassis to customize performance and capacity. NVMe dedicated appliances are available for very high IOPS and throughput performance
<b>Management</b>	Comprehensive Command Line Interface (CLI) enables administrators to provision, configure and monitor outpace.IO storage devices over ssh or SoL (Serial over Lan) using IPMI standard
<b>Maintenance</b>	Drives can be hot swap relocated between outpace.IO appliances without data loss, enabling fast system recovery. IPMI, syslog, mail alerts and notifications
<b>SCSI reservation</b>	Fully compliant with SCSI 2 and 3 reservation using outpace.IO software initiators
<b>Unified Enterprise Storage (*)</b>	Ready to support multiple storage protocols : AoE, NFS (*), CIFS (*), S3 (*), ...
<b>Client operating system (OS) Software only : no HBA</b>	All Linux distro and hypervisor (KVM, Xen, Docker®...), Solaris®, All illumos distro (Nexenta®, Syneto®...), Red Hat® Linux Enterprise®, Microsoft® Windows®, Microsoft Hyper-V®, VMware®, OpenStack®, CloudStack®

(\*) Coming soon

## outpace.IO A series Hardware Specifications

Model	<i>outpace.IO A112</i> (*)	<i>outpace.IO A214</i>	<i>outpace.IO A436</i>	<i>outpace.IO A470</i> (*)
<b>Form Factor</b>	1U	2U	4U	4U
<b>outpace.IO SAN Interfaces</b>	2 x 10 GbE	4 x 10 GbE / 2 x 40 GbE	4 x 10 GbE / 2 x 40 GbE	2 x 10 GbE
<b># of drives</b>	12 x 3.5"	12 x 2.5"/3.5" + 2 x 2.5"	36 x 2.5"/3.5"	70 x 2.5"/3.5"
<b>Capacity using 8TB drives</b>	96 TB raw	96 TB raw	288 TB raw	560 TB raw
<b>Max number of LUNs</b>	12 LUNs	14 LUNs	36 LUNs	70 LUNs
<b>Power 100-240VAC, 50/60Hz</b>	RedundantRedundant (1+1) 80+ Gold or Platinum Level			
<b>Power Consumption (max)</b>	400 Watts	1280 Watts	1400 Watts	2000 Watts
<b>Chassis Size</b>	17.2"x1.7"x32"	17.2"x3.5"x25.5"	17.2"x7"x27.5"	17.2"x7"x35"
<b>Weight (with drives)</b>	38 lbs (16.5 kg)	52 lbs (23.6 kg)	80 lbs (36.3 kg)	104 lbs (47.2 kg)
<b>Operating Temperature</b>	50-95°F (10-35 degrees C)			
<b>Relative Humidity</b>	20%-90% (non-condensing)			

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## Contacts



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