



# ESVA<sup>®</sup> Fibre Series



## Highlights

### Optimized ROI

- Ensures the most efficient allocation of consolidated capacity and computing power through thin provisioning and an access prioritizing mechanism
- Meets wide array of service level requirements with automated storage tiering

### Simplified Infrastructure

- Reduces management overhead with a single point of administration
- Enables as-needed scaling without disrupting service

### Maximized Productivity

- Eliminates planned downtime for storage scaling
- Supports the highest data availability and quick service restart after storage accidents with local and remote replication capabilities
- Hybrid model F70 features four iSCSI channels for cost-effective remote replication

### Advanced Designs

- Achieves high fault-tolerant capability with High Availability (HA) modular design
- Protects cached data during a power outage with CacheSafe technology
- Reduces power consumption with energy efficient features

The Infortrend ESVA Fibre Series is designed to support a powerful, reliable and flexible Fibre Channel (FC) SAN. It offers wide configuration choices to meet diverse application requirements for performance, capacity, space and costs. Based on Enterprise Scalable Virtualized Architecture, the ESVA FC SAN can help mid-range enterprises optimize return on investment, simplify storage infrastructure and maximize application productivity.

### Optimized Return on Investment

With storage virtualization technology, the capacity and computing power of multiple ESVA systems can be consolidated into a storage pool. For the most efficient utilization of pooled storage capacity and bandwidth, ESVA systems support thin provisioning and an intelligent access prioritizing mechanism on the virtual architecture. By enabling users to flexibly assign applications to four available tiers distinguished by different drive types and RAID levels, and offering automated data migration, automated storage tiering on ESVA helps users meet a wide array of service level requirements.

### Simplified Storage Infrastructure

ESVA simplifies storage management by enabling a single point of administration. Scaling the storage pool is also a very easy task and can be done without disrupting service. Each ESVA system can be scaled for increased capacity by connecting it to expansion enclosures. If you want to increase capacity and performance at the same time, you can also scale out the virtualized foundation by adding additional ESVA systems. When a new system is added, the distributed load balancing technology will dynamically balance workloads among storage systems and increase processing power.

### Maximized Application Productivity

In the competitive business world, downtime not only causes profit loss but can inflict damage on corporate reputations. The revolutionary architecture of the ESVA eliminates planned downtime for storage scaling. To support business continuity, it also comes with storage-based replication capabilities. Local replication offers snapshot images and full data copies in a single storage pool, while remote replication enables users to deploy full data copies across storage pools. The hybrid model F70 features four iSCSI channels that help users achieve highly cost-effective remote replication. You enjoy the highest data availability and minimized service downtime in the event of logical or physical errors.

### Advanced Hardware Designs

All ESVA systems are based on High Availability (HA) modular design to achieve high fault-tolerant capability. For better cached data protection, the ESVA systems come with built-in CacheSafe technology. In the event of a power outage, the BBU will automatically supply power to write cached data into flash memory for permanent retention. Infortrend enriches the ESVA Series with energy efficient designs, contributing to environmental sustainability while cutting energy costs for companies.

	ESVA F10	ESVA F60	ESVA F70
<b>Hardware Configurations</b>			
Host Ports	Eight (8) 8Gb/s FC ports	Eight (8) 8Gb/s FC ports	Eight (8) 8Gb/s FC ports + Four (4) 1GbE iSCSI ports
Drive Connectivity		Exclusively 6Gb/s SAS	
Cache Memory	4GB	8GB	8GB
Starting No. of Drives		8	
Supported Drives		100GB or 200GB - STEC MACH16 SSD 300, 450 or 600GB - 3.5" 15,000 RPM SAS drives 1TB or 2TB - 3.5" 7,200 RPM Nearline SAS drives 300, 450 or 600GB - 2.5" 10,000 RPM SAS drives	
Max. Drive (per system)		16	
Max. Drive (via JBOD)	-	112	112
Max. Drive (via scale-out <sup>1</sup> )	64	1344	1344
Expansion Enclosure (JBOD)	-	ESVA J60-230 (16 - 3.5" SSD/SAS and 2.5" SAS drives)	ESVA J60-230 (16 - 3.5" SSD/SAS and 2.5" SAS drives)
Form Factor		3U	
<b>Data Services</b>			
Enterprise Scalable Virtualized Architecture	Linear scaling of performance and capacity; storage pooling; thin provisioning; automatic data migration; prioritized volume accessibility; distributed load balancing; automated storage tiering <sup>2</sup>		
Data Protection	<b>Local Replication<sup>1</sup></b> : Snapshot; Volume Copy/Volume Mirror; Quick Recovery <b>Remote Replication<sup>1</sup></b> : Synchronous <sup>3</sup> or Asynchronous; Data Compression; Near Continuous Data Protection (N-CDP)		
Green	80 PLUS-certified power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down		
RAID Configurations	RAID level 0, 1, 3, 5, 6		
Availability and Reliability	Redundant, hot-swappable hardware modules; CacheSafe technology; Multi-pathing support (EonPath); Device mapper support		
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger		
Management	SANWatch management suite; Terminal via RS-232C		
OS Support <sup>4</sup>	Windows Server 2003, Windows Server 2008 (including Hyper-V), RedHat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, IBMAIX, HP-UX, Debian, CentOS, VMware, Citrix XenServer		
Service and Support <sup>5</sup>	All ESVA systems are shipped with 3-year Standard Service.		
Standard Service	Hardware warranty; replacement part dispatch on the next business day Software update; 24x7 phone, web and email support		
Advanced Service <sup>6</sup>	<b>Standard Service</b> + Onsite diagnostics on the next business day		
Premium Service <sup>6</sup>	<b>Standard Service</b> + Onsite diagnostics in 4 hours		

<sup>1</sup> Optional for the ESVA F60 and F70.

<sup>2</sup> Available with optional license on the ESVA F60 and F70.

<sup>3</sup> Synchronous remote replication currently available on the ESVA F60 and F70.

<sup>4</sup> For the latest compatibility details, please contact our sales representatives.

<sup>5</sup> Service may vary by region.

<sup>6</sup> Optional.

24x7 Global Support: <http://support.infortrend.com/esva>

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