Storage Area Network (SAN)

Provides multiple levels of fault tolerance resulting in enterprise-class protection in support of a tactical force's critical data requirements.

Rugged Features/Benefits

The OPTIA® Rugged 3U Storage Area Network provides multiple levels of fault tolerance resulting in enterprise class protection in support of a tactical force's critical data requirements. This solution provides a forward deployed unit with enterprise class performance in a reliable and sustainable form factor.

■ Redundant host ports, controllers and power supplies / RAID 0, 1 (0+1), 3, 5, 6, 10, 30, 50, 60 / Fast failover performance and high data availability. Peace of mind knowing your data is there when you need it.

■ Multiple host interfaces supported (8-16Gb/s Fibre Channel or 10Gb/s iSCSI) / A common solution that supports all of your devices

■ Technology Readiness Level 9 product / Low-risk, battlefield-proven solution

Specifications

Specification	3U SAN	2U SAN
Host Ports (Dual Host Boards for One Controller)	• (4) 10GbE (RJ45) iSCSI Ports • (4) SPF+ (optional)	
Controller	Dual redundant controllers	
Cache Memory	Default 8GB, up to 16GB (DDR3)	Default 8GB, up to 256GB (DDR4)
Drive Connectivity	6Gb/s SAS connectivity	12Gb/s SAS connectivity
	• S.M.A.R.T. support • Automatic bad-sector reassignment • Dedicated bandwidth to each connected drive	
Supported Drives (For the latest compatibility details, please contact OPTIA)	• 3.5 & 2.5" SATA/SAS HDDs • 3.5 & 2.5" SATA/SAS SSDs	• 2.5" SATA/SAS HDDs • 2.5" SATA/SAS SSDs
Maximum Number of Drives	• Per system: 16 • Via JBOD: 240	• Per system: 24 • Via JBOD: 444
Rack Support	19-inch rack mount	

RAID Functionality	• Global, dedicated or enclosure hot-spare
	• RAID levels supported : RAID 0, 1 (0+1), 3, 5, 6, 10, 30, 50, 60
	• Online expansion by:
	    ○ Adding new drives
	    ○ Copying and replacing drives with drives of larger capacity
	• RAID migration
	• Configurable stripe size and write policy per system
	• Intelligent drive handling
	    ○ In degraded mode: skips irreparable blocks to continue rebuild
	    ○ In normal operation: data-block verification and repair	

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Data Services	Thin provisioning	
		• SSD Cache (optional) • SED (Self-encrypting drives) • Automated Storage Tiering (optional)

	• Local replication**
	    ○ Snapshot
	    ○ Volume copy/ mirror
	• Remote replication (optional)
	    ○ Synchronous or asynchronous
	** Available with Standard license and optional Advanced license	

Green Design	• 80 PLUS-certified power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down	
Availability and Reliability	• Redundant, hot-swappable hardware modules • CacheSafe technology • Multi-pathing support (EonPath) • Device mapper support	
Notification	Various event notification methods including email, LAN broadcast, fax, SNMP trap and SMS.	
Management	• Web-based SANWatch management software • RS232 serial port for local access to firmware-embedded utility • Automated cache flush and caching mode operation per enclosure status • Telnet and SSH system monitoring via Ethernet • Platform-independent firmware management GUI • Module status LED indicators: component presence detection & thermal sensors via I2C bus	
Service and Support	All OPTIA SAN solutions are shipped with 3 year standard warranty.	
Power	• Power supplies: Two 530W • AC voltage: 100VAC @ 10A to 240VAC @ 5A with PFC (auto-switching) • Frequency: 50-60 Hz	

Environmental	• Temperature:
	    ○ Operating: 0 to 40°C without BBU or CBM / 0 to 35°C with BBU or CBM
	    ○ Non-operating: -40 to 60°
	• Altitude: Sea level to 3660m (12,000ft) operating / sea level to 12,192m (40,000ft) non-operating
	• Relative humidity: 5 to 95% non-condensing, operating and non-operating	

Regulatory	• Safety: UL, BSMI, CB, EAC • Electromagnetic Compatibility: CE, BSMI, FCC, KC	
Dimensions	448mm (W) x 130mm (H) x 514mm (D) (Without chassis ears / protrusions)	448mm (W) x 88mm (H) x 514mm (D) (Without chassis ears / protrusions)
Weight	• 45 lbs. (without drives) • 75 lbs. (approx., with drives)	• 43.17 lbs. (without HDDs) • 48 lbs. (approx., with drives)

rugged | powerful | custom

United Computer Products Co., Inc.
1883 E. Pleasant Valley Blvd.
Altoona, PA 16602
Tel: 888-678-4233
Fax: 814-943-2208
E-mail: info@optia.com

ISO 9001:2008 REGISTERED FIRM

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