

Tel: 020 8453 9700 Web: www.memory-express.co.uk Email: sales@memory-express.co.uk



HP StorageWorks 2000sa Modular Smart Array Controller SAS 3Gb/s Switch Bundle





The HP StorageWorks 2000sa Modular Smart Array (MSA2000sa) represents the end-to-end Serial Attached SCSI (SAS) model of the MSA2000 family (which includes the MSA2000fc Fibre Channel and MSA2000i iSCSI models), a new generation of HP storage arrays specifically designed for entry-level customers featuring the very latest in functionality and technology at highly affordable price points. The MSA2000sa is a 2U direct attach, external shared storage solution designed for small to medium size deployments or remote locations. It comes in two models -a basic single controller model for low initial cost with the ability to upgrade later; and a model with dual controllers standard for maximum performance. This solution offers a SAS host interface to accommodate twelve 3.5 inch enterprise class SAS drives and archival-class SATA drives. Additional capacity can easily be added when needed by attaching up to three MSA2000 12 bay drive enclosures. Maximum raw capacity ranges from 3.6TB SAS or 12TB SATA in the base cabinet, to over 14.4TB SAS or 48TB SATA with the addition of the maximum number of drive enclosures. NOTE: there are no additional hidden charges, licences or fees as you add enclosures or hosts and users.

The 3Gb SAS Switch is a single wide interconnect module that enables each server blade with a Smart Array P700m controller card to communicate with the HP StorageWorks 2000sa Modular Smart Array. Bundle includes: HP MSA2012sa DC Modular Smart Array (qty 1), HP 3Gb SAS BL Switches (qty 2) and HP mini-SAS 2M Cable (qty 4).

Operating Systems Supported Windows 2008; Windows 2003; Red Hat Enterprise Linux 5; SuSE

Linux Enterprise Server 10; VMWare ESX 3.5 support will be

available 30 days after Launch

Dimensions 44.7cm (W) x 60.2cm (D) x 8.9cm (H) - Weight 20.0kg

Features

- * HP StorageWorks 2000sa Modular Smart Array Controller Switch Bundle
- * Drive: 1 48
- * Host interface: Serial Attached SCSI (SAS) 3Gb/sec
- * Storage expansion: MSA2000 3.5 inch disk enclosure (single or dual IO)
- * Supported drives interface type: SAS; SATA
- * Clustering support: Yes; Windows and Linux
- * Support SAN backup and Storage mirroring
- * 2U Chassis type
- * Capacity up to 48TB of storage



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Specification

General

The HP StorageWorks 2000sa Modular Smart Array (MSA2000sa) represents the end-to-end Serial Attached SCSI (SAS) model of the MSA2000 family (which includes the MSA2000fc Fibre Channel and MSA2000i iSCSI models), a new generation of HP storage arrays specifically designed for entry-level customers featuring the very latest in functionality and technology at highly affordable price points. The MSA2000sa is a 2U direct attach, external shared storage solution designed for small to medium size deployments or remote locations. It comes in two models a basic single controller model for low initial cost with the ability to upgrade later; and a model with dual controllers standard for maximum performance. This solution offers a SAS host interface to accommodate twelve 3.5 inch enterprise class SAS drives and archival-class SATA drives. Additional capacity can easily be added when needed by attaching up to three MSA2000 12 bay drive enclosures. Maximum raw capacity ranges from 3.6TB SAS or 12TB SATA in the base cabinet, to over 14.4TB SAS or 48TB SATA with the addition of the maximum number of drive enclosures. NOTE: there are no additional hidden charges, licences or fees as you add enclosures or hosts and users.

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System Requirements

Windows 2008; Windows 2003; Red Hat Enterprise Linux 5; SuSE **Operating Systems Supported**

Linux Enterprise Server 10; VMWare ESX 3.5 support will be

available 30 days after Launch

Environmental

Operating Temperature 5 to 40C - Humidity 10 to 90% Environmental

Physical

In The Box Includes: HP MSA2012sa DC Modular Smart Array (1), HP 3Gb SAS BL

Switches (2), HP mini-SAS 2M Cable (4)

Dimensions 44.7cm (W) x 60.2cm (D) x 8.9cm (H) - Weight 20.0kg

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Options

Other

| HP | T5512A | HP StorageWorks MSA2000 Snapshot 64 Software LTU | £1509.84 | VIEW> |
|-------|--------|---|----------|-------|
| HP | T5515A | HP StorageWorks MSA2000 Snapshot 8 to 64 Upgrade Software LTU | Call us | VIEW> |
| HP | T5514A | HP StorageWorks MSA2000 Snapshot Volume Copy Software LTU | Call us | VIEW> |
| HP | T5513A | HP StorageWorks MSA2000 Snapshot 8 Software LTU | £564.48 | VIEW> |
| Other | | | | |
| HP | T5438A | HP StorageWorks Storage Mirroring Software Server 1 LTU | Call us | VIEW> |
| HP | T5441A | HP StorageWorks Storage Mirroring Software Enterprise Server 10 LTU | Call us | VIEW> |
| HP | T5444A | HP StorageWorks Storage Mirroring Software 5 Virtual Machine 1 LTU | Call us | VIEW> |
| HP | T5447A | HP StorageWorks Storage Mirroring Software Server Recovery Option 1 LTU (5.1 with Windows 2008 Hyper-V support) Paper entitlement certificate | Call us | VIEW> |
| HP | T5450A | HP StorageWorks Storage Mirroring Software Virtual Infrastructure 1 LTU | Call us | VIEW> |
| HP | T5437A | HP StorageWorks Storage Mirroring Software V5 Media Kit | Call us | VIEW> |
| HP | T5440A | HP StorageWorks Storage Mirroring Software Enterprise Server 1 LTU | Call us | VIEW> |
| HP | T5443A | HP StorageWorks Storage Mirroring Software NAS Edition 10 LTU | Call us | VIEW> |
| HP | T5446A | HP StorageWorks Storage Mirroring Software AiO Edition 1 LTU | Call us | VIEW> |
| HP | T5449A | HP StorageWorks Storage Mirroring Software Linux 10 LTU | Call us | VIEW> |
| HP | T5439A | HP StorageWorks Storage Mirroring Software Server 10 LTU | Call us | VIEW> |
| HP | T5442A | HP StorageWorks Storage Mirroring Software NAS Edition 1 LTU | Call us | VIEW> |
| HP | T5445A | HP StorageWorks Storage Mirroring Software Itanium Server 1 LTU | Call us | VIEW> |
| HP | T5448A | HP StorageWorks Storage Mirroring Software Linux 1 LTU | Call us | VIEW> |

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VIEW>

£1573.64

Hard Disk Drives

| HP | AJ736A | HP 300GB (15,000 rpm) SAS 3.5 inch Hard Drive | £456.13 | VIEW> | | | |
|----------------------------|------------|--|----------|-------|--|--|--|
| HP | AJ735A | HP StorageWorks MSA2 146GB 3G (15000rpm) 3.5 inch Dual-port SAS Hard Drive | £319.08 | VIEW> | | | |
| HP | AJ739A | HP StorageWorks MSA2 750GB (7200rpm) 3.5 inch Dual-Port SATA Hard Drive | £319.08 | VIEW> | | | |
| HP | AJ738A | HP 500GB (7200rpm) 3.5 inch Dual-Port SATA Hard Drive | £246.08 | VIEW> | | | |
| Disk arrays | | | | | | | |
| HP | AJ749A | HP StorageWorks MSA2000 Single I/O 3.5 inch 12 Drive Enclosure | £1687.33 | VIEW> | | | |
| HP | AJ750A | HP StorageWorks MSA2000 Dual I/O 3.5 inch 12 Drive Enclosure | £2235.11 | VIEW> | | | |
| Cases | | | | | | | |
| HP | AF011A | HP 10636 G2 (36U) Rack Cabinet - Pallet | £897.64 | VIEW> | | | |
| HP | AF022A | HP 10622 G2 (22U) Rack Cabinet - Shock Pallet | £1384.88 | VIEW> | | | |
| Metal housings or cabinets | | | | | | | |
| HP | AF001A | HP 10642 G2 (42U) Rack Cabinet - Pallet | £983.12 | VIEW> | | | |
| HP | 358254-B21 | HP 5642 Rack (Unassembled) Metallic Carbonite | £703.08 | VIEW> | | | |
| HP | AF012A | HP 10636 G2 (36U) Rack Cabinet (Shock Pallet) | £1173.15 | VIEW> | | | |
| Projector Accessories | | | | | | | |
| HP | 292302-B22 | HP Rack S10614 (14U) - Rack Cabinet Shock Pallet | £580.62 | VIEW> | | | |
| Mounts | | | | | | | |
| HP | AF031A | HP 10647 G2 (47U) Rack Cabinet - Pallet | £1139.54 | VIEW> | | | |
| HP | AF014A | HP 10636 G2 (36U) Rack Cabinet , with Extension - Shock Pallet | £1350.07 | VIEW> | | | |
| HP | AF021A | HP 10622 G2 (22U) Rack Cabinet - Pallet | £1024.03 | VIEW> | | | |

HP 10842 G2 (42U) 800mm Wide Rack Cabinet - Shock Pallet

AF042A

ΗP

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| HP | AF004A | HP 10642 G2 (42U) Rack Cabinet, with Extension - Shock Pallet | Call us | VIEW> | | | | |
|---------------------|------------|---|----------|-------|--|--|--|--|
| HP | AF013A | HP 10636 G2 (36U) Rack Cabinet - Crated | Call us | VIEW> | | | | |
| HP | AF041A | HP 10842 G2 (42U) 800mm Wide Rack Cabinet - Pallet | £1307.22 | VIEW> | | | | |
| HP | AF003A | HP 10642 G2 (42U) Rack Cabinet, with Extension - Shock Pallet | Call us | VIEW> | | | | |
| HP | AF002A | HP 10642 G2 (42U) Rack Cabinet - Shock Pallet CTO | £1037.08 | VIEW> | | | | |
| Interconnect Cables | | | | | | | | |
| HP | 389665-B21 | HP External SAS Cable (1m) | £105.75 | VIEW> | | | | |
| HP | 389671-B21 | HP External Serial Attached SCSI (SAS) Cable - 4m (use with 337972-B21) | Call us | VIEW> | | | | |
| HP | 407339-B21 | HP External Mini SAS 2m Cable | £110.48 | VIEW> | | | | |
| HP | 389668-B21 | HP External SAS Cable (2m) | £117.59 | VIEW> | | | | |
| HP | 432238-B21 | HP External SAS to Mini 4m Cable | £138.33 | VIEW> | | | | |

About Memory Express

Although we started out selling just Memory the best part of fifteen years ago, we have diversified organically over the years at the request of our customers. We specialise in Networking, Storage and Disaster Recovery and have the knowledge, experience and strategic partnerships to provide you with the service and value you demand - quality products, reasonably priced and delivered on time

Memory Express can offer you a full range of installation and configuration services for hardware and software as well as detailed, accurate advice on all aspects of your IT projects. You'll be glad to know that we don't have a room full of school leavers trying to sell products they don't understand - all our staff are seasoned IT specialists and have an average length of service of over ten years. We won't just push you towards the solution we feel like selling; we'll help you to find the one you need.

Meanwhile, online, we offer one of the largest product ranges of any UK IT supplier. Showing near live stock, in depth product information and keen pricing, we're sure you'll find what you need. We also have matched memory upgrades for over 50,000 models of computer, server, printer, phone and camera, guaranteeing you the right memory, first time. All this is backed up by the same great service you'd expect when dealing with us over the phone. For our regular business customers, we provide T3, our corporate purchasing portal which provides a truly corporate focused buying experience.

We're conveniently located in Park Royal, London's Technology Business Park, allowing us to reach all areas of the UK quickly and efficiently. Many of our City based corporate clients benefit from same day delivery and we can offer next day delivery to established customers throughout the British Isles. Online delivery tracking and status information means that you need not worry about the whereabouts of your order.

We're proud to have built up a wide variety of partnerships with quality vendors and many of our staff hold certifications from top tier manufacturers including Microsoft, Acronis, Symantec and VMWare.



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Our clients vary in size from SMEs to many of the UK's largest corporates, government departments, schools and universities, and we're pleased to say that most have been our customers for many, many years - we believe in long term business relationships, not turning a quick profit. Why not contact us now to see how we can help you get the quality of service they already enjoy?