



cost-effective



### what's new

- supports the HP StorageWorks Modular SAN Array (msa) 1000, an entry-level storage area network (SAN) array, with a low cost option facilitating simple 2-node SANs and basic 2-node clustering
- cost-effectively offers 2 Gb speeds in a FC-AL hub
- embeds in the msa1000, optionally replacing the single I/O module, thus saving valuable rack storage space

## hp StorageWorks msa hub 2/3 for the hp StorageWorks msa1000

The HP StorageWorks Modular SAN Array hub 2/3 is a low cost Fibre Channel interconnect specifically for the HP StorageWorks msa1000, an entry-level SAN solution. The msa hub 2/3 is a 3-port Fibre Channel arbitrated loop hub mounted on a blade that easily installs inside the msa1000 storage unit, saving valuable rack space. Two of these hubs may be installed for redundancy within the msa1000.

The hub presents the user with two populated SFP ports for simple direct attachment to two servers, single or clustered, without having to purchase an external interconnect device such as a hub or switch. It offers the most cost-effective solution for a user to enable a clustered server environment.

### key features and benefits

#### controllable

- **available:** can be used in pairs for low cost redundancy with high-availability features

#### resilient

- **affordable:** enables the most cost-effective way to implement a two-node SAN or cluster

#### extensible

- **performance:** assures fast 2 Gb Fibre Channel speed
- **space saving:** provides integrated design mounts internal to the msa1000

hp StorageWorks  
msa hub 2/3



simple direct  
attachment

## technical specifications

<b>performance</b>	2.125 Gb line speed, full duplex
<b>media types</b>	Short wave (SW) small form-factor pluggable (SFP)
<b>management</b>	N/A
<b>diagnostics</b>	POST
<b>dimensions (h x w x d)</b>	1.5 in x 9.50 in x 8.50 in (3.81 cm x 24.13 cm x 21.59 cm)
<b>temperature range</b>	10°C to 35°C (operating) (derated 1°C per 1000 feet of elevation to 10,000 feet) -40°C to 60°C (shipping, up to 72 hours) -20°C to 60°C (storage, up to 1 year)
<b>humidity range</b>	10 to 90% @ 82°F (28°C) (wet bulb) (operating) Up to 95% @ 82°F (29°C) (wet bulb) (storage)
<b>weight</b>	2.2 lb (.997 kg)
<b>safety</b>	CSA 950 (Canada); UL 1950 (USA); IEC60950 A4 (Japan); NEMKO (EUC); AS/NZS 3548 (Australia/New Zealand); IEC 60950 (international)

## ordering information

<b>product number</b>	<b>product name</b>
286763-B21	hp StorageWorks msa hub 2/3

## what's included

msa hub 2/3; two SFP transceivers; single SW SFP user guide

## warranty and support

<b>warranty features — hp service and support</b>	<ul style="list-style-type: none"><li>• 1-year limited parts warranty or assumes the remaining warranty of the original msa1000 in which it is installed</li><li>• msa1000 CarePaq Services apply</li></ul>
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## for more information

For more information regarding the msa1000 and hub option visit:

<http://h18000.www1.hp.com/products/storageworks/msa1000/index.html>

For more information on alternative external HP switches, contact any of our worldwide sales

offices or visit our SAN infrastructure web site at: <http://h18000.www1.hp.com/storage/saninfrastructure.html>

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