

### MODELS

Compaq Storage Hub 12 Management Option

159262-B21

#### Benefits at a Glance

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- Provides management for the Compaq Storage Hub 12
- Shares same physical fibre channel cabling and uses a channel (frequency) not shared by the Fibre Channel protocol, thus no loss in data integrity or bandwidth
- Out-of-band communication allows master hubs to monitor and control cascaded hubs without depending on general network availability

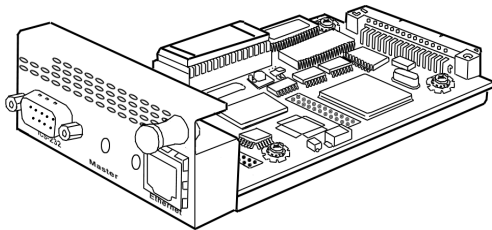
### PRODUCT DESCRIPTION

Compaq Storage Hub 12 Management Option provides management functionality for the Compaq Storage Hub 12. This hub is used with the RA4000, RA8000 and ESA12000 storage solutions and the Enterprise Backup Solution.

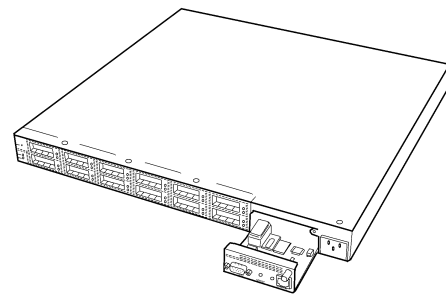
Compaq Storage Hub 12 Management Option consists of:

- Compaq Storage Hub 12 Management Utilities (HMU)
- Compaq Storage Hub 12 Management Module (HMM)
- Compaq Storage Hub 12 Diagnostic Tools (Diagnostic Tools)
- Inter-Hub Communication Interface (ICI)
- Documentation
- A serial cable

The management software is designed to be launched as a standalone solution. Additionally, a version of StorageWorks Comand Console (SWCC) is available on the web that is used to map the customer environment and launch the management software.



Compaq Storage Hub 12 Management Module (HMM)



HMM partially inserted in the Compaq Storage Hub 12

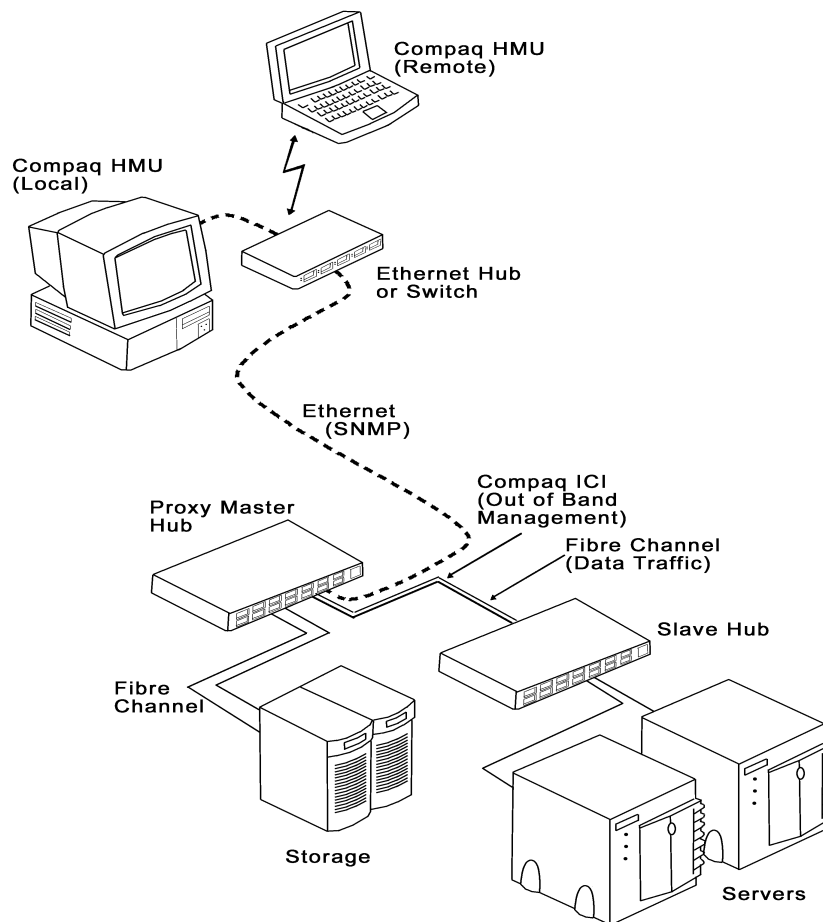
### KEY FEATURES

High-performance non-blocking 12 Gb/s FC-AL Switch engine for building a Workgroup and Departmental SAN today.

- Hub discovery
- Hub status
- Environmental information (Fan, Power Supply and Temperature)
- Events log
- Alerts at the port and hub level
- Support for RS-232 and 10Base-T connections

Additionally, the following features are available on Compaq Storage Hub 12 units purchased after 9/1/99:

- Enhanced visibility into the network including:
  - Network traffic characteristics
  - Overall network status
  - Network configuration (including Arbitrated Loop Physical Address – ALPA)
  - Network diagnostics



An example of how the Inter-Hub Communication Interface (ICI), a proxy management communications system, uses the same cabling for both network management traffic (out-of-band) and fibre channel data. Managing the network does not impact the data traffic over the network

# QuickSpecs

## Compaq Storage Hub 12 Management Option

### TECHNICAL SPECIFICATIONS

<b>Environmental</b>	<b>Temperature</b>	
	Operating	50° to 104°F/10° to 40°C
	Non-operating	-22 to 140°F/-30° to 60°C
	<b>Relative Humidity</b>	
	Operating	20% to 80% non-condensing
	Non-operating	10% to 90% non-condensing
	<b>Shock</b>	
	Operating	5G, 11 msec half-sine wave
	Non-operating	140G, 2 msec half-sine pulse
	<b>Random Vibration</b>	
	Operating	1.0G rms, 10 to 500 Hz
	Non-operating	2.0G rms, 10 to 500 Hz
	<b>Altitude</b>	
Operating	0 to 10,000 ft/0 to 3,048 m	
Non-operating	0 to 20,000 ft/0 to 6,096 m	
<b>Airflow</b>		
(rear-to-front)	24 cfm/680 lpm	
<b>Mechanical Specifications</b>	<b>Dimensions (HxWxD)</b>	
	Product	1.5 x 3.125 x 6 in/3.81 x 7.94 x 15.24 cm
	Shipping	2 x 11.5 x 8 in/5.08 x 29.21 x 20.32 cm
	<b>Weight</b>	
	Product	0.4 lb/0.18 kg
	Shipping	2.34 lbs/1.06 kg
	<b>Module Color</b>	Beach Gray
<b>Acoustic Noise</b>	During normal operation, the sound pressure level at the average bystander position, per ISO 7779, shall not exceed 46 dBA.	