

# DataFree Series

## DataFree

Compact 3 / 4 S-ATA drive bay expander



The MS-223A / MS-324A is a S-ATA drive expansion bay. Designed for applications requiring the high performance S-ATA drive interface, it accommodates three/ four each 3.5" S-ATA drive trays within the space of standard 5.25 inch height drive bay. For improved reliability it comes with a built-in backplane to accommodate power and drive signal distribution.

The MS-223A / MS-324A is ideal for installation in servers, industrial PC and rack-mountable systems, places where drive capacity exceeds drive bay availability.

The MS-223A / MS-324A comes with three fans that create an environment to keep the drives properly cooled. The front panel door contains LED indicators to provide real-time drive activity and status plus individually lockable drive trays provide an extra layer of data security.

### Fault tolerance

- ▶ Allows for the installation of 3 each S-ATA drives in a full height 5.25 inch opening (MS-223A).
- ▶ Allows for the installation of 4 each S-ATA drives in a 5.25" x 3 inch opening (MS-324A).
- ▶ Industry Standard: Full Height 5.25" form-factor (MS-223A) / 5.25" x 3 form-factor (MS-324A).
- ▶ Modular in Design: Easy to Integrate.
- ▶ Backplane Design: Eliminates problems associated with internal power and drive signal cables.
- ▶ Three / Four Individually Lockable Drive Trays: Extra Layer of data Security.
- ▶ Support 1" high 3.5" S-ATA drives: Lower Total Cost of Ownership.
- ▶ Three Built-in Fans: Self-contained Ventilation.
- ▶ Ergonomically Designed Front Access Door: LED Status Indicators display real-time drive activity.
- ▶ Audible alarm for Fan failure.
- ▶ LED Indicators for over temperature.



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# Series Technical Specifications



Model	MS-223A	MS-324A
<b>Form-factor</b>	5.25" x 2 internal mounting	5.25" x 3 internal mounting
<b>No. of drive channel</b>	3	4
<b>Drive bus interface</b>	S-ATA 150	S-ATA 150
<b>Data transfer rate</b>	Up to 150MB/Sec	Up to 150MB/Sec
<b>Back plane board</b>	S-ATA 150	S-ATA 150
<b>Hot-swap drive tray</b>	3 each 1" trays	4 each 1" trays
<b>Drive tray interface</b>	S-ATA 150	S-ATA 150
<b>Cooling fan</b>	3	3
<b>Security locks</b>	Yes	Yes
<b>Host independent</b>	Yes	Yes
<b>Drive access indicators</b>	Yes	Yes
<b>Over Temperature indicators</b>	Yes	Yes
<b>Fan failure warning</b>	Yes	Yes
<b>Power requirements</b>	5V DC 3A(Max)	5V DC 4A(Max)
<b>Environmental</b>		
<b>Relative Humidity:</b>	10% to 85% Non-condensing	10% to 85% Non-condensing
<b>Operating Temp:</b>	5°C ~ 55°C (41°F ~ 131°F)	5°C ~ 55°C (41°F ~ 131°F)
<b>Non-operating Temp:</b>	-40°C ~ 60°C (-40°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
<b>Physical</b>		
<b>Dimension:</b>	84.7(H) x 149(W) x 262(D) mm 3.33(H) x 5.87(W) x 10.31(D) inches	128(H) x 149(W) x 262(D) mm 5.04(H) x 5.87(W) x 10.31(D) inches
<b>Weight</b>	2kgs/4.41lbs (without drives)	2.8kgs/6.17lbs (without drives)

Specification are subject to change without notice.

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## The benefits of Serial ATA are :

- ❖ Serial ATA's point-to-point signaling that provides full bandwidth to each connected device, hot plug capability, smaller connectors, standardized connector placement and layout, simpler cabling and longer cable lengths.
- ❖ The cost advantages and performance of Serial ATA can make it a compelling alternative to other technologies.

## Serial ATA Value Proposition

### Serial ATA Delivers

- ✓ Narrower Cabling.
- ✓ Supports Lower Power Requirements.
- ✓ Lower Pin Counts.
- ✓ 10-year Roadmap.
- ✓ Higher Performance.
- ✓ Improved Connectivity (no master/slave).
- ✓ Longer Cabling.
- ✓ PC Economies of Scale.