

HP M8705A LTO-5 SAS Tabletop Tape Drive for HP NonStop Integrity NS-Series and Blade System Servers

Data Sheet



The HP Model M8705A LTO-5 SAS manual load tabletop tape drive is designed for NonStop Integrity NS-Series servers and Blade systems.

The HP M8705A LTO-5 represents HP's fifth-generation of LTO tape drive technology capable of storing up to 3TB per cartridge. The M8705A provides investment protection with full read and write backward support with LTO-4 media, and the ability to read LTO-3 media. By nearly doubling the capacity of previous generation LTO Ultrium drives, HP customers now require fewer data cartridges to meet their storage needs, significantly reducing their IT costs and increasing their ROI.

The HP M8705A LTO-5 SAS tape drive lowers the cost of an entry-level tape drive on NonStop Integrity NS-Series servers and Blade systems while increasing both capacity and performance.

For HP NonStop Integrity NS-Series Servers and Blade Systems

Key Features

- **High-Capacity:** Large-capacity drive capable of storing up to 3TB (with LTO-5) of compressed storage on a single cartridge, requiring fewer data cartridges to meet storage needs, significantly reducing IT costs
- **Reliable:** HP's exclusive data rate matching feature automatically adjusts the drive's read and write speed based on the server and network environment, which increases performance, reduces mechanical wear on the drive, and extends tape life. Softload feature automatically takes the data cartridge and moves it into the load position. Advanced tape leader capture design ensures fail-safe cartridge loading. Active head cleaning provides automated cleaning that increases head life and reduces the need for using the cleaning cartridge.
- **Affordable:** High capacity combined with low media cost delivers an exceptionally low cost of ownership and ensures a faster return on investment
- **Investment Protection:** Delivers a compelling technology roadmap that offers higher capacity and performance tape solutions with backward read and write compatibility for previous drive generations

Minimum System OS Requirements

- HP Integrity NonStop servers requires Guardian Release H06.25 or later
- HP NonStop Blade systems requires Guardian Release J06.14 or later

Technical Specifications

M8705A Tape Drive:

Tape Format	Ultrium generation 5
Tape Media Compatibility	Read/Write Ultrium 4, read only Ultrium 3
Cartridge Capacity	1.5 TB native; Up to 3.0 TB compressed (assuming 2:1)
Data Transfer Rate	Up to 140 MB/s native; 280 MB/s compressed (LTO-5)
Buffer Size	256 MB
Data Access Time	52 seconds from beginning of LTO-5 media (average)
Rewind Tape Speed	9 m/s for (LTO-5 and LTO-4 media)
Interface	SAS External: mini-SAS SFF8088
Plug Type	6Gb/sec SAS
Power Specifications	100 – 240 VAC, 50 – 60 Hz auto ranging, 0.7 A max

Ordering Information

For HP NonStop Integrity NS-Series Servers and Blade Systems

Hardware Configurations

HP Part Number	Product ID	Description
691686-001	M8705A	HP LTO-5 SAS Tabletop Tape Drive

SAS Cables

AE466A	2M External Infiniband (SFF8470) to Mini-SAS (SFF8088) 1x SAS Cable
AE468A	4M External Infiniband (SFF8470) to Mini-SAS (SFF8088) 1x SAS Cable

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