

RS06 Solid State RAM Disk

MASSBUS Upgrade/Enhancement



The RS06 solid state RAM disk stores the data capability of eight RS03 or RS04 disk drives with a single, compact unit. The RS06 also offers you greatly enhanced data performance and plug-and-play operation.

You can switch configure the RS06 for zero to eight disk drives in any combination of RS03 or RS04 drive types. With the RS06, you have the flexibility to directly configure any number or type of RS drives on a single MASSBUS controller. The RS06 contains an optional single drive 8MB mode which is switch selectable.

RS06 is Fast, Compact and Easy to Use

No software changes are needed to replace existing RS-type drives with the RS06 because it is transparent to all PDP-11 operating systems' software supporting RS03 or RS04 drives. This allows you to mirror the previous drive configuration or add this capability to your current system.

The RS06 can be used on any PDP-11 UNIBUS system capable of having RH11 MASSBUS adapters or on the PDP-11/70 system using the standard RH70 MASSBUS adapter. This improves performance on disk-bound systems.

A single RS06 contains 8 megabytes of DRAM memory, which equals eight RS04-types disk drives. It will emulate an RS04 at 1megabyte and an RS03 at 0.5 megabytes.

RS06 Increases Data Performance

You can switch the RS06 disk data transfer rate from 0.6 megabytes per second to 1.2 megabytes per second. The I/O channel bandwidth must be available with no other MASSBUS channel activity or use of a performance enhancement product in order to use the 1.2 megabytes per second rate. Data performance is further enhanced because there is no rotational delay, which can be responsible for over 50 percent of total transfer time on an RS-type drive.

RS06 Features:

- Emulates up to eight standard RS03 or RS04 disk drives with one RS06
- Switch selectable single 8MB drive mode
- Frees up valuable floor space
- Improves system throughput on disk bound systems
- Greatly enhances data performance at 0.6 MB per second by eliminating rotational delay
- Plug-and-play installation with no required changes to operating system software
- Saves energy, using only 20 watts versus hundreds of watts used by the RS03 or RS04 drives
- Retains data integrity with battery backup and power-down capability
- One year factory warranty and 24 hour repair turnaround

Description:

RS06

The RS06 disk drive emulates the standard Digital RS03/RS04 or a single 8MB disk drive, connected to an RH11 (standard UNIBUS controller) or RH70 (dedicated PDP-11/70 controller) MASSBUS adapter. It replaces the disk drive's function only and plugs into the existing MASSBUS controller. Because the RS06 replaces the equivalent of eight RS04 disk drives, it also frees up valuable floor space by eliminating all the cables and existing RS03 or RS04 hardware.

Battery Backup Unit

The RS06 retains data integrity during normal power-down by providing power through the battery backup unit from an unswitched system AC outlet. In this mode, the system can be turned off for an indefinite period of time. When AC power is lost, the battery backup will provide data retention for up to one hour with provided battery.

Specifications

Power Requirements:	Voltage: +5VDC Operating Current: 3.5 A (17.5W) Standby Current: 1.5A (7.5W)
Physical Characteristics:	8.37in X 5.2in X 1.4in Three dual-height modules integrated into a single unit. replaces the three standard MASSBUS interface modules (M5904) in the RH11 or RH70 backplane. Requires no external cabinetry. Weight: 2.01 lbs.
Battery Backup: (separate unit)	Width: 5in Height: 10in Depth: 3.5in Mounts on rear frame of cabinet Weight: 6.5 lbs.
Environmental:	Meets all required specifications for applicable system type by manufacturer, including class C.

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