

Delivering cost-effective storage with all the benefits of SSA



3527 SSA Storage Subsystem for PC Servers

Highlights

Provides low cost, high performance storage for PC Servers

Offers up to 45.5 GB of storage capacity in five hot-swap drive bays

Allows distances of up to 25 meters (82 feet) between a host and 3527 subsystems

Protects mission-critical data through the IBM SSA RAID Adapter for PC Servers

Works with Windows NT, OS/2, or Novell NetWare operating systems

An affordable, high-performance storage solution, today and tomorrow

In today's unpredictable business environment, organizations need a low-cost, high-performance storage solution that can keep pace with changing business requirements. The IBM 3527 SSA Storage Subsystem for PC Servers uses Serial Storage Architecture (SSA) technology to deliver outstanding performance, highly scalable capacity, and enhanced availability—at a remarkably affordable price.

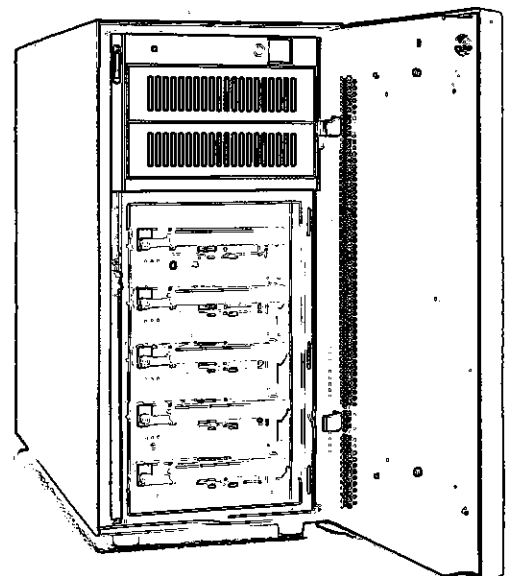
The 3527 SSA Storage Subsystem provides up to 80 MB per second of maximum bandwidth. This allows sustained data rates as high as 60 MB per second in non-RAID configurations and 35 MB per second in RAID-level arrays, for the most demanding storage applications.

The compact external enclosure's mini-tower design features five optional hot-swap drive bays that can hold any combination of 4.5 GB or 9.1 GB SSA disk drives. This results in a total storage capacity of up to 45.5 GB per enclosure.

As many as 48 drives can be attached to each of two loops on a single adapter. This provides a maximum of 96 drives with 873 GB of storage on PC Server Models 320, 325, 330, and 520. For the largest database applications, PC Server Models 704 and 720 support two adapters per server, for a maximum of 192 drives totaling 1.75 TB of storage.

The subsystem takes full advantage of SSA's ability to integrate new technologies into an existing storage infrastructure. Users will be able to easily and efficiently add higher-performance disk drives and the latest drive technology as it becomes available, thus ensuring that a user's investment in PC Server products is protected, now and into the future.

The 3527 SSA Storage Subsystem uses the SSA RAID Adapter for PC Servers to run under a variety of operating systems. Network managers can choose from Windows NT 3.51 or 4.0, Novell NetWare 4.1 or 4.1 SMP, OS/2 Warp Server or Warp Server SMP, and OS/2 2.11 SMP—allowing users to customize subsystems for individual data environments.



3527 SSA Entry Storage Subsystem

3527 SSA Storage Subsystem for PC Servers

Specifications

Transfer Rate	
SSA Interface	80 MB/second drive interface bandwidth
Configuration	2 to 5 disk drives (4.5 GB or 9.1 GB) per subsystem. Unused bays must have dummy drive modules installed to maintain continuity of the SSA loop.
Physical Dimensions	407 mm (16 in.) H x 197 mm (7.75 in.) W x 483 mm (19 in.) D
Weight	20 KG (44 lbs)
Operating Temperature	16° C (60.8° F) to 32° C (89.6° F)
Relative Humidity	20% to 80% non-condensing
Power	
115 Power Supply Setting	90–137 V AC, 47–63 Hz, 378 watts maximum.
230 Power Supply Setting	180–265 V AC, 47–63 Hz, 480 watts maximum
Agency Approvals	USA: FCC Class B Japan: VCCI-2 Europe: CISPR 22 Class B, CE MARK B
Japan Energy-Saving Law Data	Machine type and model: 3527001 Maximum usable storage capacity: 45.5 GB Energy consumption in watts: 115 V—378W 230 V—480W Watts per MB: 115 V—.02W/MB
Optional Products	4.5 GB SSA SL Hot-Swap Disk Drive (27H1062) 9.1 GB SSA Hot-Swap Disk Drive (21H8734) SSA Dummy Disk Drive Module (05J6411) Cable, SSA external pair, 1.0 meter (59H7220) Cable, SSA external pair, 2.5 meter (59H7221) Cable, SSA external pair, 5.0 meter (59H7222) Cable, SSA external pair, 10.0 meter (59H7223) Cable, SSA external pair, 25.0 meter (59H7224)

Designed for high availability

The 3527 SSA Storage Subsystem features a high availability design, making it ideal for business applications where continuous access to data is important. All drives are self-configuring with optional hot-swap capability, for easy serviceability or replacement without shutting down the server. The SSA RAID Adapter for PC Servers helps protect against loss of data access using RAID 1 or 5. In addition, RAID 0 arrays or non-RAID disk drives can be mirrored across servers to provide cost-effective protection for critical applications.

The 3527 subsystem also uses SSA's unique bi-directional loop architecture to ensure that data access is never interrupted by a broken cable or the

failure of a single disk drive. The system is quickly returned to normal operation once the failed drive has been replaced or data path restored.

Added flexibility for simplified configurations

The storage subsystem's SSA interface provides added flexibility when configuring systems, allowing distances of up to 25 meters (82 feet) between adapters, drives, and subsystems over low-cost copper cables. This makes it possible to place subsystems in convenient, secure locations far from the server. No fixed addresses for drives are required. Further, the subsystem's small footprint adapts to even the tightest floorspace requirements.

Let Us Tell You More

For more information about the 3527 SSA Storage Subsystem for PC Servers, contact an IBM representative or IBM Business Partner. Users can also visit the IBM PC Company home page on the Worldwide Web at <http://www.pc.ibm.com>. Or call 1-800-772-2227 in the United States or 1-800-465-7999 in Canada.



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