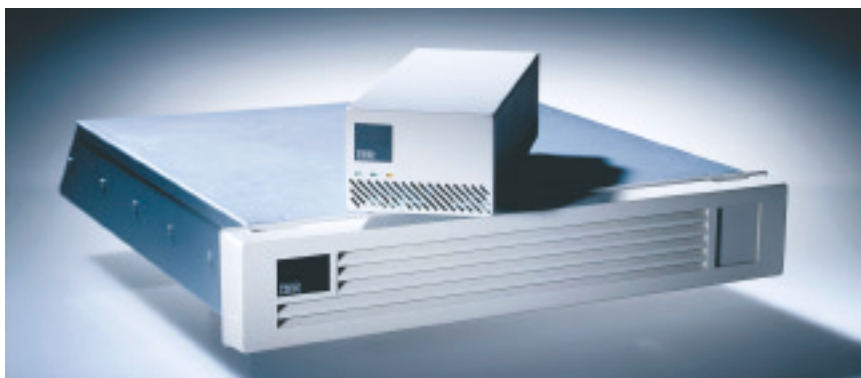


IBM TotalStorage SAN Controller 160

Highlights

- **Designed to provide flexible Fibre Channel connectivity for UNIX® and Microsoft® Windows NT® servers**
- **Features host-independent disk mirroring designed for high availability, disk concatenation for large-volume groups and Instant Copy for creating a separate copy of data for tape backup**
- **Uses the SAN Controller Manager to support multiple SAN Controllers**
- **Scales up to enable as many as eight host attachments for each serial loop**
- **Designed to help maximize Fibre Channel host adapter bandwidth potential**
- **Helps protect serial disk storage investments with an upgrade path for the IBM Enterprise Storage Server™**



IBMTotalStorageSANController 160

Flexible Fibre Channel attachment

IBM TotalStorage™ SAN Controller 160 is designed to enable IBM 7133, 7131 and 3527 Serial Disk Systems to attach to host systems using Fibre Channel host adapters and drivers.

The SAN Controller replicates data across or within serial disk systems—simultaneously mirroring two or three copies of data without host involvement. With global hot disk sparing, data is automatically rebuilt if a mirrored disk fails. In this way, the SAN Controller helps improve performance and data availability while simplifying storage operations.

The Instant Copy function can create a separately addressable copy of mirrored data that can be used for tape backup. After the backup has completed, data can be resynchronized with the primary copy.

To support remote storage operations, mirrored 7133 Advanced Models D40 or T40 can be separated by up to 10 km with serial storage fibre optic extenders.

With 36.4 GB disks, logical volume groups or partitions as large as 580 GB can be created for Windows NT servers, which have limited volume addressing. The SAN Controller can also create composite drives by concatenating up to 16 physical disks. These capabilities provide configuration flexibility for growing storage environments.

Simplified management

The SAN Controller 160 Manager is a Windows NT-based management tool that provides configuration and service functions—including mirror group definition, the ability to create composite drives and Instant Copy disk management. The SAN Controller can manage multiple SAN Controllers across the enterprise.

A highly scalable solution

The SAN Controller supports up to 64 serial disk drives in a single loop and is designed to enable non-disruptive growth in disk capacity from 18.2 GB to 2.3 TB. Up to eight UNIX and Windows NT host systems can be attached to a single loop. Performance can scale up as more SAN Controllers are added to the serial loop.

A standalone tabletop SAN Controller unit provides one Fibre Channel port and two SSA ports. Short- and long-wave laser optical interfaces are supported. An optional rack-mounted enclosure can hold up to four SAN Controllers in a compact 2U-high space in an industry-standard 19-inch rack.

Fully utilized bandwidth potential

The SAN Controller is designed to enable Fibre Channel servers to benefit from high-performance, non-arbitrated serial disk technology. The Fibre Channel host-based adapter views the SAN Controller as a single FC-AL target, which helps minimize loop arbitration overhead.

Investment protection

The 7133 Advanced Model D40 is a key component in the Enterprise Storage Server. You may attach your serial disk to the ESS as your requirements change.

For more information

about SAN Controller 160 visit ibm.com/storage/7140



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GB equals one billion bytes when referring to hard drive capacity; accessible capacity may be less.

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IBM TotalStorage SAN Controller 160 at a glance

Product numbers and feature codes

7140 Model 160 — TotalStorage SAN Controller 160
FC 2000 — Rack-Mount Enclosure
FC 2010 — Short-wave GBIC (Gigabit Interface Converter)
FC 2020 — Long-wave GBIC
FC 5805 Fibre Channel Cable, multimode optical, 50.0U, 5 meters
FC 5825 Fibre Channel Cable, multimode optical, 50.0U, 25 meters

Supported servers and operating systems

IBM AIX, Sun Solaris and HP-UX servers and Intel-based servers running Windows NT and 2000 are supported. For specific details about supported servers, host adapters, operating systems and Fibre Channel hubs and switches, visit ibm.com/storage/7140

Storage systems

Attaches to IBM 7133 Serial Disk System Advanced Models D40 and T40 (SSA 160) and all SSA 80 models; the IBM 7131 Model 405 Multi-Storage Tower and the IBM 3527 SSA Storage Subsystem.

Physical characteristics

Standalone unit dimensions	76.0 mm H x 107.0 mm W x 279.4 mm D (3.00" x 4.26" x 11.00")
Standalone unit weight	1.9 kg (4.2 lb)
Drawer option dimensions	88.9 mm H x 483.0 mm W x 507.0 mm D (3.50" x 19.00" x 19.95")
Drawer option weight	10.0 kg (22.0 lb)

Operating environment

Temperature	50° to 104° F (10° to 40° C)
Relative humidity	8% to 80% (noncondensing)
Electrical power requirements	60 Watts



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