



Burroughs

B 9484-5, B 9387-2, B 9387-1 Dual Disk Storage, Disk Storage Controller and Disk Pack Drive Exchange

The B 9484-5 is an ideal batch or on-line storage unit for use with Burroughs systems. This drive offers the user a full range of benefits including:

- Fast random access.
- Modular design.
- Easy upgradeability.
- Reliable servo-controlled heads.
- Error detection/correction.
- Small physical size.
- Low-cost disk packs.

The B 9387-2 is a programmable controller which controls multiple dual B 9484-5 drives through the B x387-5 disk pack drive exchange. A maximum of 8 controllers may be configured to a B x387-5 exchange controlling a maximum of 16 disk spindles.

The B 9387-1 dual disk storage/single controller is a B 9484-5 dual drive and a 1 x 4 controller. This controller can control one or two B 9484-5 dual drives.

General Characteristics

■ Easy upgradeability

The B 9387-1 has a basic capacity of 130.4 million bytes of storage and may be expanded by adding one B 9484-5 dual drive. If additional storage or additional simultaneous paths are required, the B 9484-5 dual drives may be configured with the B 9387-2 controller and the B x387-5 disk pack exchange. The B 9484-5/B 9387-2 may be expanded to an 8 x 16 subsystem giving eight simultaneous paths to 16 spindles, or 1.04 billion bytes of storage.

■ High data integrity

Each disk pack drive has track-following servo-controlled heads guided by data written on the pack rather than on a physical mechanism located in the drive. This technique provides superior head-positioning accuracy which assures high data integrity. Each controller has the capability to detect eleven dropped bits out of a 180-byte sector, and correct these errors without main processor intervention.

- B 9974-5 disk pack

The B 9484-5 dual drive utilizes the B 9974-5 disk pack. This pack is comprised of five disk platters. Each pack has five surfaces for user data and one surface for head guidance data.



Storage Characteristics

- User capacity per spindle: 65,201,400 bytes
- User capacity per dual drive: 130,402,800 bytes
- Sector size: 180 bytes

- Sectors per track: 90
- Tracks per cylinder: 5
- User cylinders per pack: 814
- Maintenance cylinders per pack: 1

Access Characteristics

- Access (average): 25 ms
- Latency (average): 8.3 ms
- Transfer rate: 605,000 bytes/sec

Physical Characteristics

- Disk Pack Drive (B 9484-5)

Width: 21.5 inches – 54.6 cm
Depth: 34.5 inches – 87.6 cm
Height: 44 inches – 111.8 cm
Weight: 650 pounds – 295.4 kg

- Disk Pack Controller

Width: 21 inches – 53.3 cm
Depth: 30 inches – 76.2 cm
Height: 44 inches – 111.8 cm
Weight: 220 pounds – 100.0 kg