

5.1 Storage Devices

As you study this section, answer the following questions:

- What are the advantages of hard disks over all other forms of storage media?
- How do optical drives store and read data from a disc?
- How does a flash device differ from a hard disk?
- Which storage device types are magnetic media? Which are optical? Which are solid state?

In this section, you will learn to:

- Select the appropriate storage solution

Key terms for this section include the following:

Term	Definition
Flash memory	Electronic non-volatile memory that is easy to erase and reprogram.
Hard disk	A long-term storage device; a thick magnetic disk made of several aluminum platters in a protective shell.
Integrated Drive Electronics (IDE)	An electronic interface that allows communication between a motherboard's data paths or bus and a computer's hard disks.
Non-Volatile Memory Express (NVMe)	A memory storage device designed to allow access to non-volatile storage media through a PCI express (PCIe) bus.
Optical disc	A storage device that records binary information through pits in a reflectively-coated disc. Optical discs use lasers for reading and writing information.
M.2	A popular solid state drive often used in portable electronics.
SD card	A flash memory device is often used in digital cameras.
Solid state drive	A flash device with a large storage capacity comparable to a hard disk drive's.

This section helps you prepare for the following certification exam objectives:

Exam	Objective
CompTIA 220-1001	<p>1.1 Given a scenario, install and configure laptop hardware and components.</p> <ul style="list-style-type: none">▪ Hardware/device replacement<ul style="list-style-type: none">▪ Hard drive<ul style="list-style-type: none">▪ SSD vs. hybrid vs. magnetic disk

3.4 Given a scenario, select, install and configure storage devices.

- Solid-state drives
 - M2 drives
 - NVME
- Hybrid drives
 - Flash
 - SD card
 - CompactFlash
 - Micro-SD card
 - Mini-SD card
 - xD

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards.

- Motherboard connectors types
 - IDE

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