

# CompTIA (A+) Introduction

what is

Computing Technology Industry Association

IT technician certification

Core 1 & Core 2

220-1101

220-1102

Exam 90 minute

1. Multiple choice
2. Drag & Drop
3. Performance-based (Simulators)

675 (75%)

out of a scale of 100-900

\$239 exam fee

discount search online (student email)

Domain	% of exam
Mobile devices	15%
Networking	20%
Hardware	25%
Virtualization and Cloud Computing	11%
Hardware & Network Troubleshooting	29%

Core -1 → 15 days

Core -2 → 15 days

(Do not study more than 3 hours a day.)

Day -1: Register for the exam.

{ I tried but couldn't buy }

VUE.com search compTIA A+

## Time & Dedication

### Throughput Unit

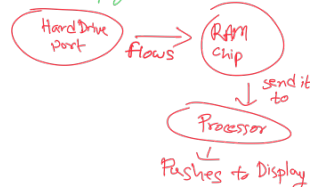
- network cable
  - wifi Router
- speed
- bps (bits per second)
- Kbps (Kilobits per second)
- Mbps (Megabits per second)
- Gbps (Gigabits per second)
- Tbps (Terabits per second)
- cable transfers
- 100
- 10

### Internal Computing Component

Desktop inside

- Power supply unit (lots of cables comes with it)
- Drives
- Heat sink
- RAM
- Bios (battery)
- Motherboard
- Connectors (e.g. VGA connector)

When you are accessing a program



## IT Fundamentals → not in exams

### Numbering Systems

- Decimal → base 10 (0-9)
- Binary → base 2 (0 or 1)
- Hexadecimal → base 16 (0-9 and A-F)

### Storage Unit

- Bit → 0 or 1
- Byte → 8 bits
- KB → Kilobyte = 1000 bytes
- MB → Megabyte = 1000 KB
- GB → Gigabyte = 1000 MB
- TB → Terabyte = 1000 GB
- PB → Petabyte = 1000 TB

little b is bit  
capital B is Byte

Hard Drive → 1 TB, 250 GB etc  
128 GB

### Processing Speeds

- Processors
- MHz → 1 million cycles per second
- GHz → 1 billion cycles per second

### Devices

- Printer
- Scanner
- Keyboard
- Mouse
- Camera

External hard drive

Speakers

Display

3.5 mm audio cable

## RAM (Volatile memory)

## ROM (non-volatile)

Read only access

## HDD HardDisk Drive

## SSD Solid State Drive (expensive)

SATA connectors

SATA cable

## mSATA (non volatile)

SSD

## Network Storage

### Local network storage types

NAS (Network Attached Storage)

File Server use in businesses

### Cloud Storage Service

Google Drive

Drop box



Synology DiskStation DS223 2-Bay NAS

4.7 stars (133,000 reviews)

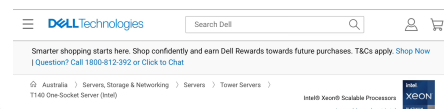
Typically \$438-\$498

Best price

Amazon AU

Synology DiskStation DS223 2-Bay 3.5" Diskless 1-bay NAS (Tower) (HDD), Realtek RTD1180B Quad-core 1.4THz, 2GB RAM...

\$445.00



### PowerEdge T140 Tower Server

1 Socket | 4U Rack Server

Reliable for foundational workloads with great entry-level storage, memory capacity, and CPU options.

Processors:

1 x 2nd Generation Intel® Xeon® processor

Memory

4 (64GB)

Storage

4 x 3.5"