Motherboard
&
CPU

🥇 OBJECTIVES FOR TODAY 🥇

✓ What is **Motherboard**

✓ Components that connected to Motherboard

✓ What is **CPU?**

✓ How does CPU work?

Computer Hardware

WHAT IS ...?

Power supply

Mother | Main Board

Processor

SSD

Motherboard
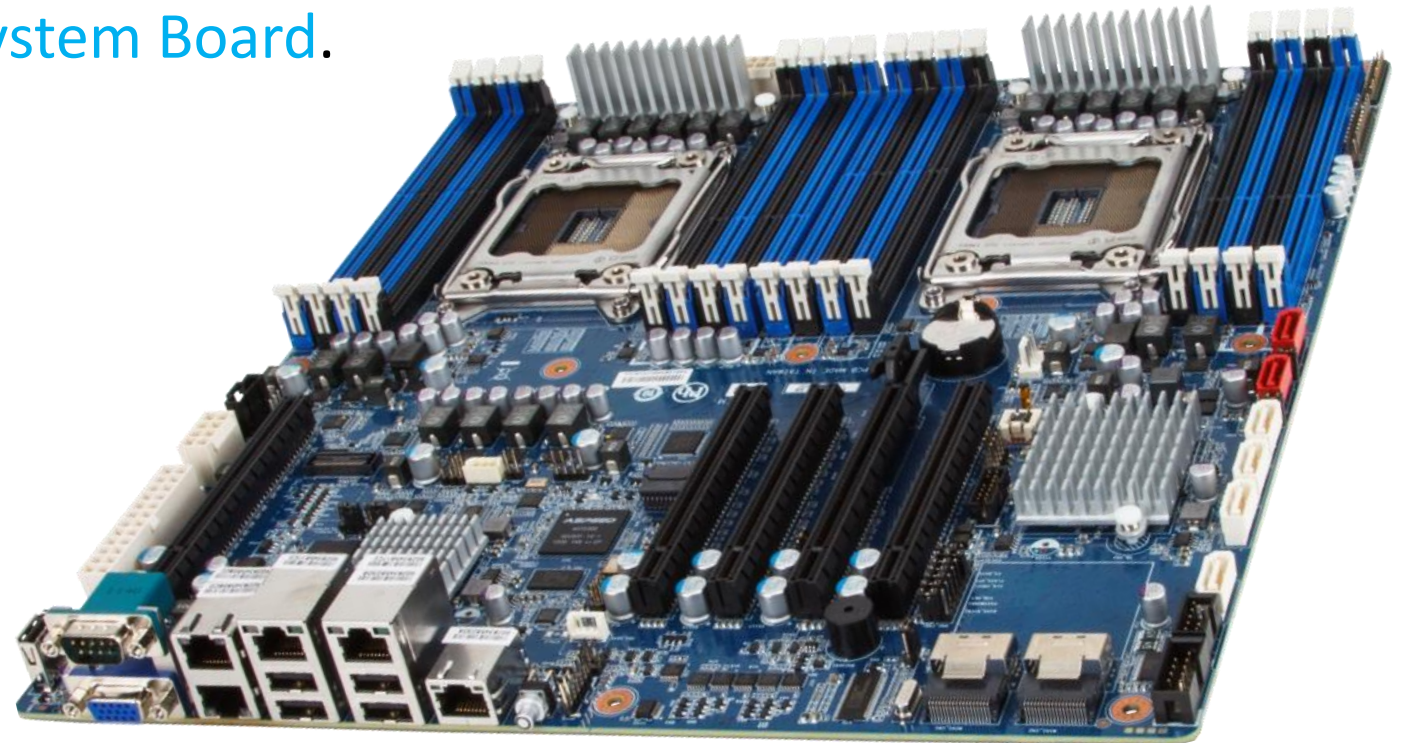
What is Motherboard?

- The motherboard is the most important part of a PC that *enables the integration and control* of all other components and devices in a complete computer system.

- Motherboard or Mainboard or System Board.

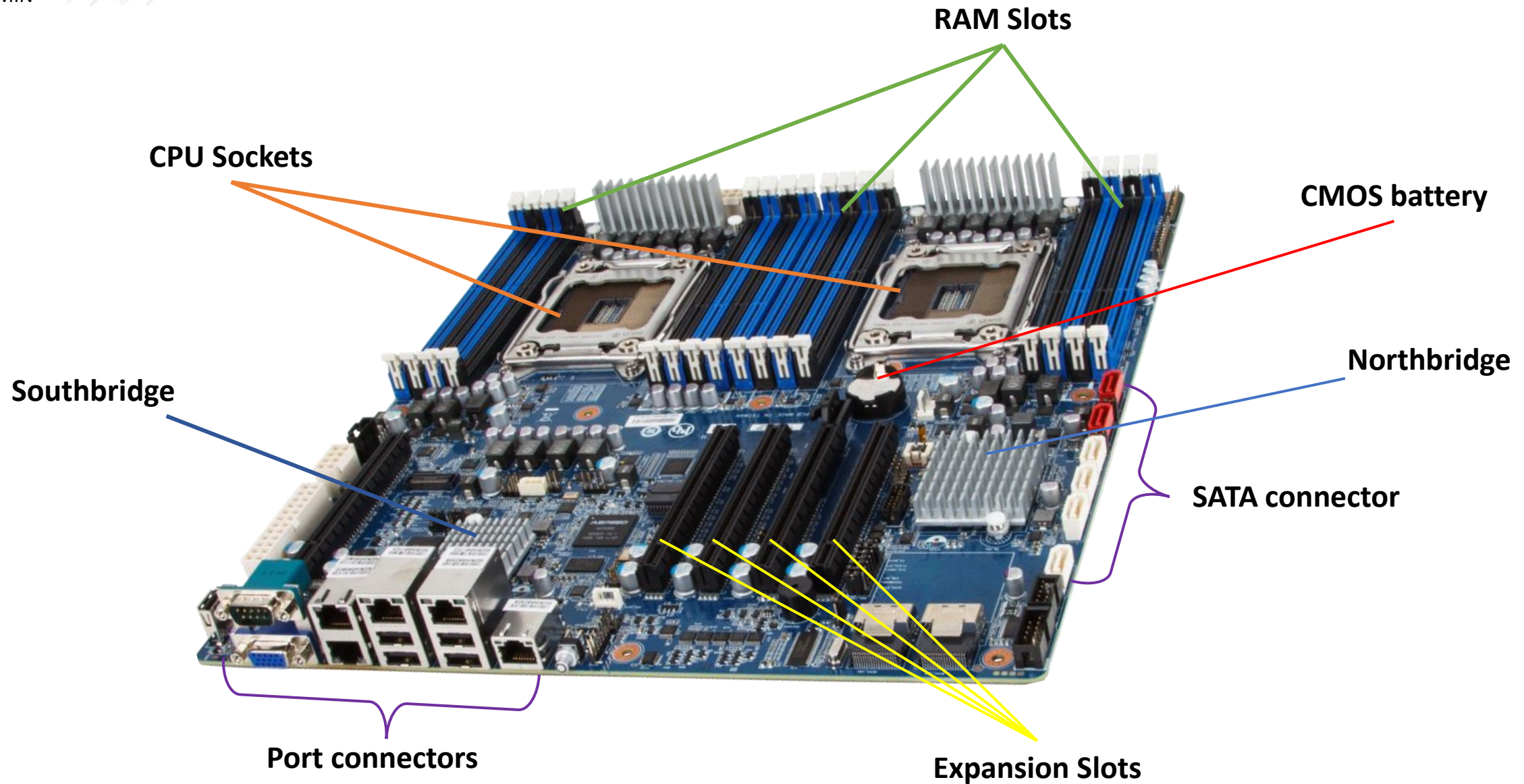# Motherboard in short

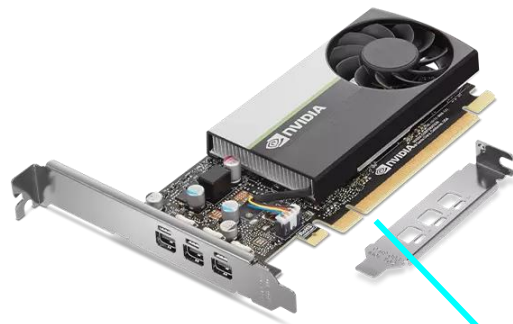Motherboard is a **Circuit Board**

It's a **Backbone** of the computer

It **integrates** all Hardware into one system

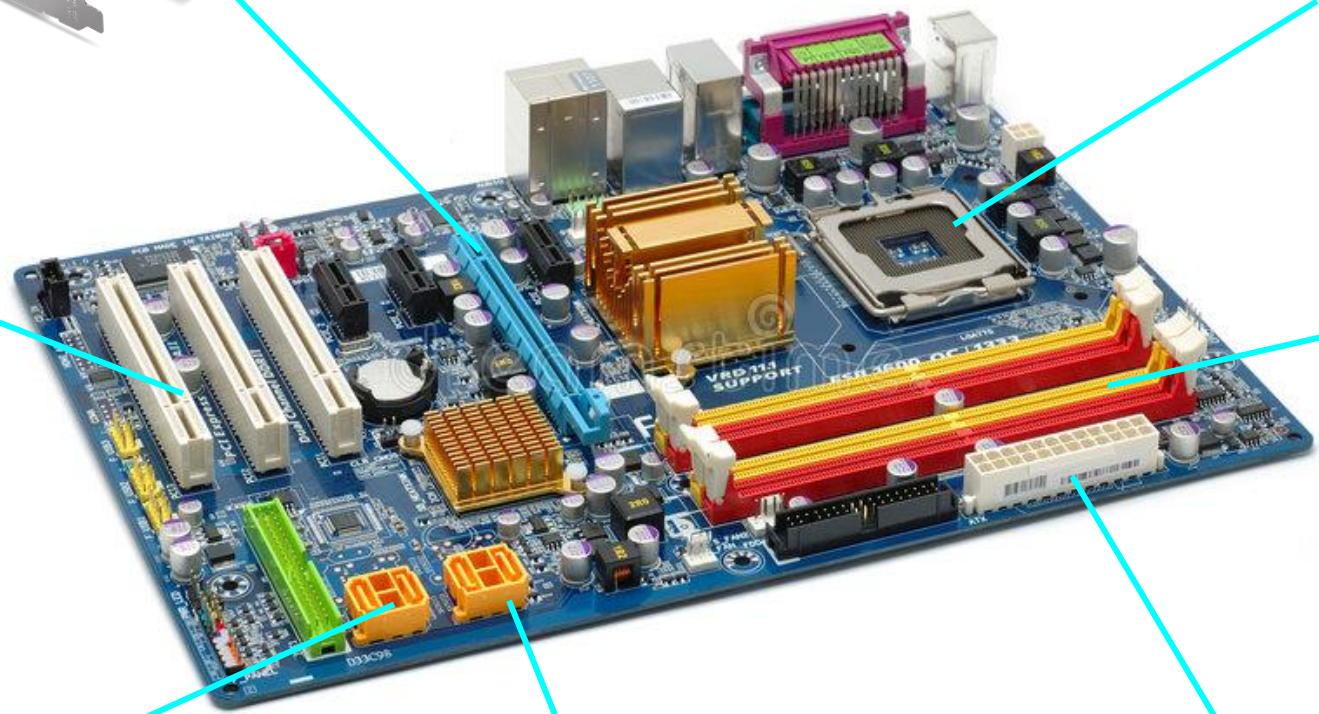Allow all components to **receive power** and **communicate** together

Motherboard Components

RAM Slots

CPU Sockets

CMOS battery

Northbridge

Southbridge

SATA connector

Port connectors

Expansion Slots

Video/VGA Card

Processor (CPU)

Wireless Card

RAM

Hard Disk

DVD ROM

Power Supply

10 MIN

Watch the video to understand **the component of Motherboard**

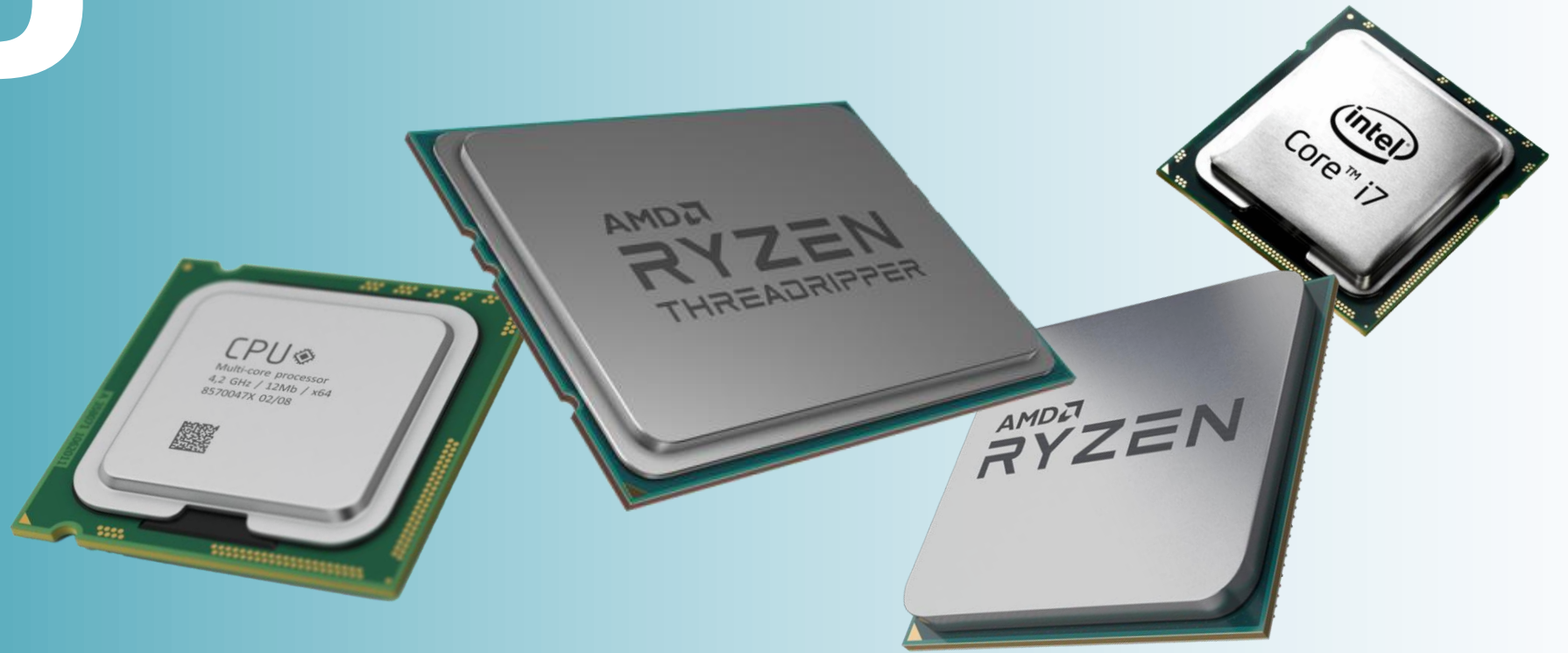# Type of Motherboard

ITX

(6.7"x6.7")

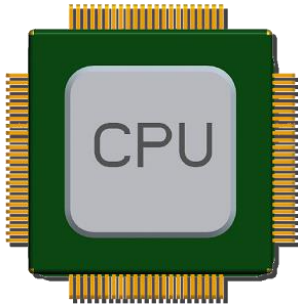M-ATX

(9.6"x9.6")

ATX

(12"x9.6")

E-ATX

(12"x13")

CPU

2 MIN

WHAT IS CPU?

SAME AS

2 MIN

What Role Of CPU In Computer?

What do you think CPU dose in Computer?

It does all decisions, calculations all processing in Computer.
Example, even you typing or you move your mouse, all process need CPU make decisions.
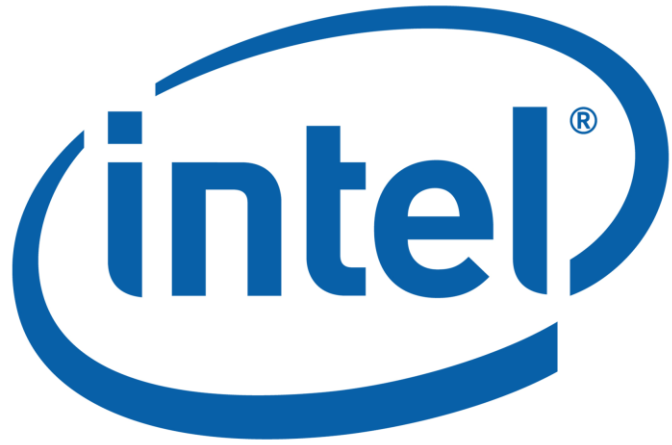
CPU in short

CPU is the "**brain**"of Computer system

CPU stands for **Central Processing Unit**

It **runs** program instructions

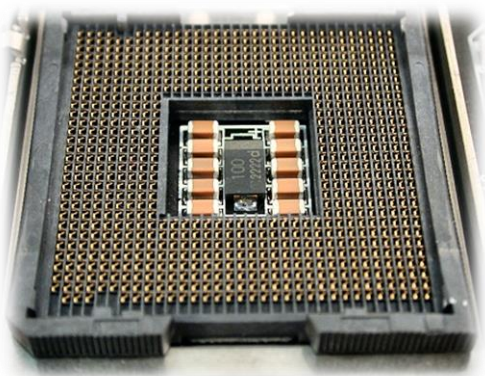Basically the **faster the CPU**, the **faster computer** will perform

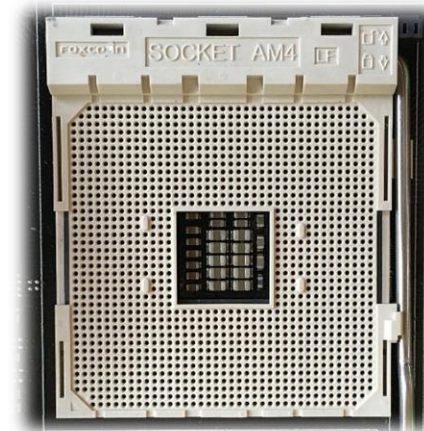# MODERN CPUs

5 MIN

CPU AND SOCKET

Manufacturers

Intel

AMD

Intel platform use **LGA** (Land grid Array) socket type.

AMD platform use **PGA** (Pin grid Array) socket type.

Gaming	Content Creation	Basic Tasks
Intel Core X-Series Processor	Intel Core X-Series Processor	Intel Core i3 Processor
Intel Core i7 Processor	Intel Core i7 Processor	Intel Core i5 Processor
Intel Core i9 Processor	Intel Core i9 Processor	Intel Pentium Processor
		Intel Celeron Processor

TECHNOLOGY ON CPU

- 64-bit processing

- Virtualization support

- CPU Cores

- Integrated graphics processing unit (GPU)

- Clock speed

SELECTING CPU

What's information you need to check before select CPU

Check motherboard Manufacturers

Go To Manufacturers Websites

Check spec and CPU support