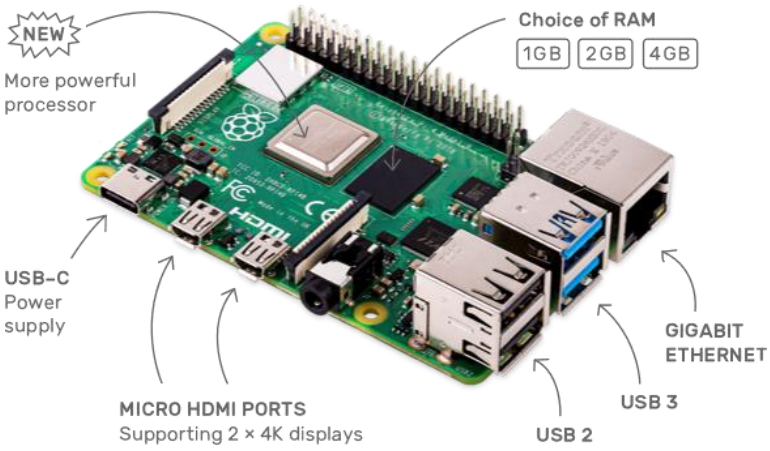
Chapter 6 I/O

Finding two hardware devices in the market. Describe the device's architecture. What is the input / output standard to connect the hardware to your computer?

Raspberry Pi 4



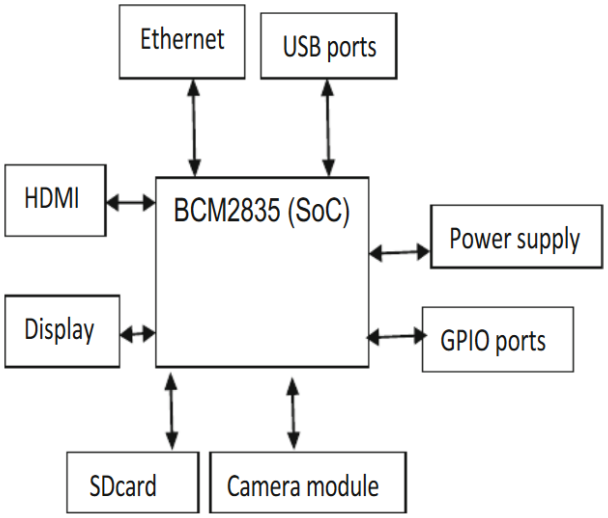


Fig. 1. Raspberry pi hardware architecture

I/O(type): input/control

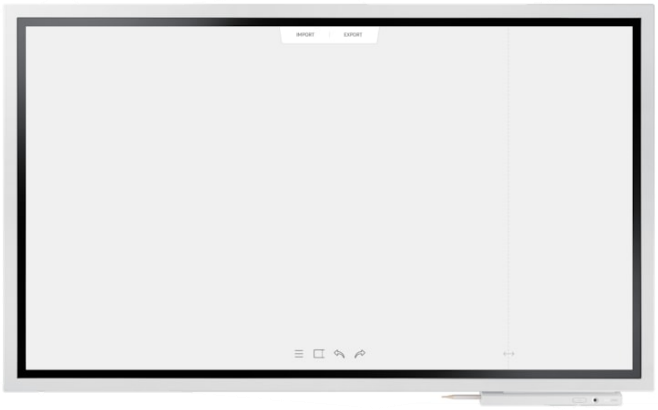
Architecture: Raspberry pi

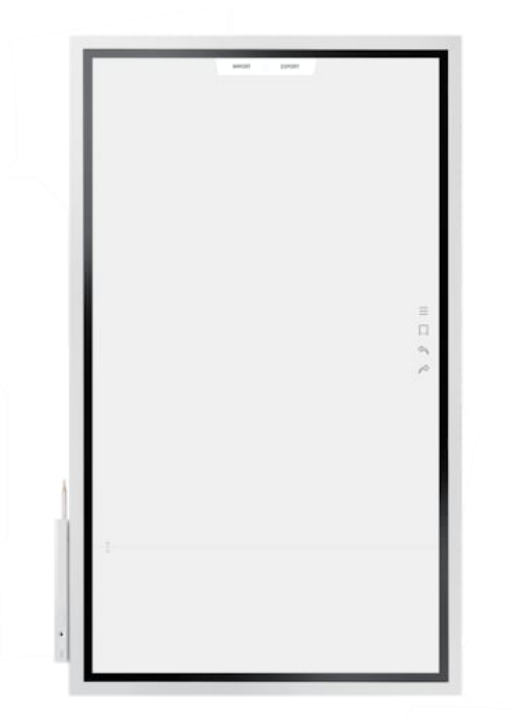
Data transfer: 480Mb/s

I/O speed: 100MB/s

How it work: it is a small computer that plugs into a computer monitor or TV, and uses a standard keyboard and mouse. It is a capable little device that enables people of all ages to explore computing, and to learn how to program in languages like Scratch and Python.

Samsung Flip





I/O(type): output

Architecture: CA72

Data transfer: 1400Mb/s

I/O speed: 1.7 GHz

How it work: when you want to share your idea you can use the Samsung flip instant of write board the input of this hardware is a pen or your hand that touches on the board and it uses a Gyroscope sensor to detect whether it is horizon or Verizon. You can also use your personal PC to connect the board via Bluetooth and share your work there.