MST 2 Documentation
IOT Project

Simple TV to Smart TV

CHANDIGARH UNIVERSITY

Discover. Learn. Empower.

Submitted By:

Rishav Raj(15BCS2116)

Abhishek Gaur(15BCS2170)

Himanshu Dhiman(15BCS2200)

Wiring Diagram

The **Raspberry Pi** is a series of small single-board computers developed in the United Kingdom by the Raspberry Pi Foundation to promote the teaching of basic computer science in schools and in developing countries. The original model became far more popular than anticipated, selling outside its target market for uses such as robotics. It does not include peripherals (such as keyboards, mice and cases).

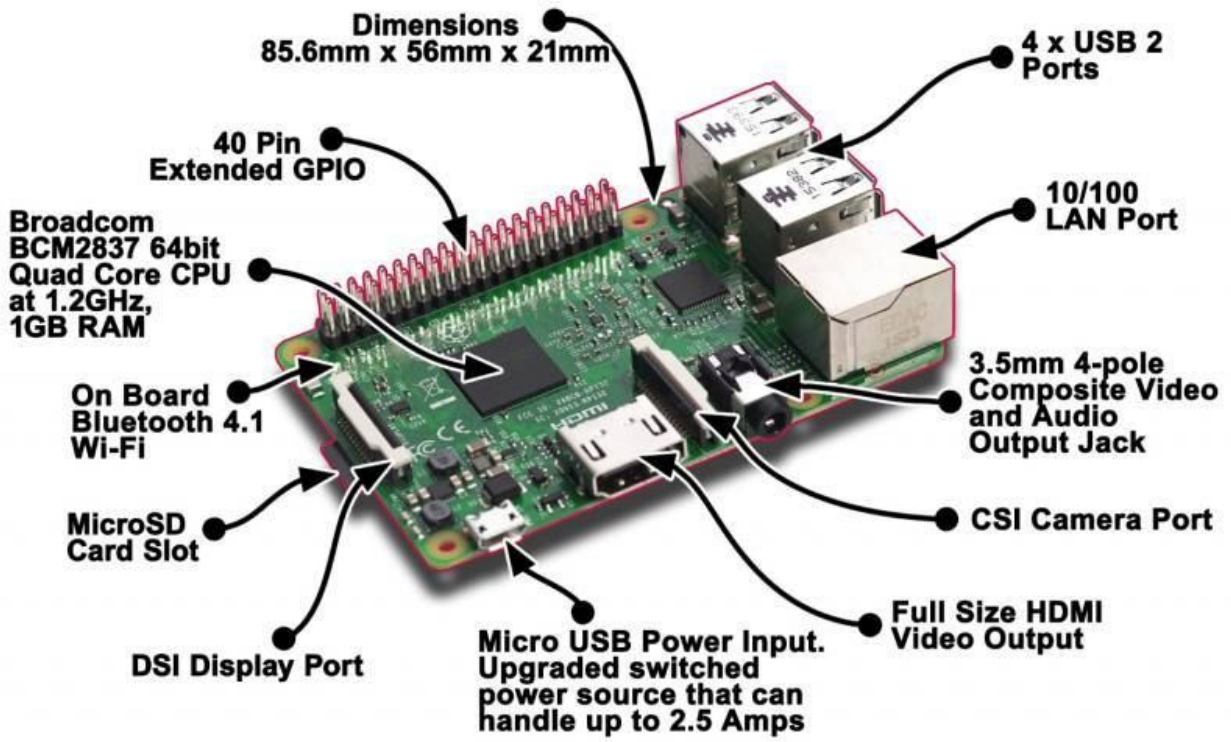

Fig. 1 Raspberry Pi 3

The Hardware of Raspberry Pi

- Schematics
    - Schematics for the Raspberry Pi
- BCM2835
    - The Broadcom processor used in Raspberry Pi 1 and Zero
- BCM2836

    - The Broadcom processor used in Raspberry Pi 2
- BCM2837
    - The Broadcom processor used in Raspberry Pi 3 (and later Raspberry Pi 2)
- Bootmodes
    - A description of the BCM2835/6/7 bootmodes available
- Mechanical Drawings
    - Mechanical drawings of the Raspberry Pi
- Power
    - Powering the Raspberry Pi
- USB
    - USB on the Raspberry Pi
- GPIO
    - General Purpose Input/Output pins on the Raspberry Pi
- SPI
    - SPI on the Raspberry Pi
- DPI (Parallel/RGB Display)
    - DPI on the Raspberry Pi

Project Wiring Diagram Description

In the project, first of all we need to supply Power to the Pi, and the monitor. Using a HDMI to VGA converter, we connect the monitor to the Pi.
We also require a USB keyboard and a USB mouse to perform particular input operations.
For the internet connection we can either use the Built-in WiFi or use an Ethernet Cable for the same.
We also require a Headset/Speaker to be able to listen the audio.

Fig. 2 Wiring Diagram