



SPECIFICATION

- RASPBERRY PI 3 MODEL B+
 - Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
 - 1GB LPDDR2 SDRAM
 - 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE
 - Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps)
 - Extended 40-pin GPIO header
 - Full-size HDMI
 - 4 USB 2.0 ports
 - CSI camera port for connecting a Raspberry Pi
 - DSI display port for connecting a Raspberry Pi touchscreen display
 - 4-pole stereo output and composite video port
 - Micro SD port for loading your operating system and storing data
 - 5V/2.5A DC power input
 - Power-over-Ethernet (PoE) support (requires separate PoE HAT)
- On Board Applications
 - 4 Input Switches to give Digital Input
 - 4 LEDs to display Digital Output
 - 4 digit Seven segment displays
 - 16*2 Alphanumeric LCD
 - Miniature Buzzer
 - 12V SPDT Relay
 - Fingerprint Sensor Module
 - RFID Sensor Module
 - Neo 6m v2 GPS Module
 - 16 Bit I2C 4 Channel ADC using ADS1115 module
 - 40 Pin GPIO Extension Board for Raspberry Pi
 - Pilot lamp Indicator

- Pi camera Module
- USB to Serial converter
- DC Motor
- 600 Tie Points Bread Board Area provided
- Interconnection
 - All interconnections are made using 0.8mm Single stand wires.
- Test points are provided to analyze signals at various points.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of 3.3V,+5V & +12V with Power ON indication
- Attractive ABS Plastic enclosures
- Set of 0.8mm single stand wires for interconnections

LIST OF EXPERIMENTS

- Starting Raspbian OS, Familiarising with Raspberry Pi Components and interface, Connecting to ethernet, Monitor, USB.
- Displaying different LED patterns with Raspberry Pi
- Displaying Time over 4-Digit 7-segment Display using Raspberry Pi.
- Setting up Wireless Access Point using Raspberry Pi
- Fingerprint Sensor interfacing with Raspberry Pi
- · Raspberry Pi GPS Module Interfacing
- IoT based Web Controlled Home Automation using Rasbperry Pi.
- Visitor Monitoring with Raspberry Pi and Pi Camera.
- Interfacing Raspberry Pi with RFID.
- Building Google Assistant with Raspberry Pi.
- Installing Windows 10 IoT Core on Raspberry Pi.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India, Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com

Website: www.tesca.in

