| **Product Name :** | **Product Code :** |
| IOT Based Sensor Lab Trainer | NLAB-ELECTRONICSAB530001 |

Description :

IOT Based Sensor Lab Trainer

Technical Specification :

The Sensor Trainer Kit is a modularly designed complete training kit with all the necessary sensors, sources, electronic instrumentation, necessary jigs & displays. Experimentation is down by 2mm brass terminations & patch cords The trainer is housed in an elegant & sturdy plastic cabinets and consists of mimicked dedicated circuits / blocks with necessary test points. The various sensors covered are :

Processor Board Specifications:-

Quad Core 1.2GHz Broadcom BCM2837 64bit CPU

1GB RAM

BCM43438 wireless LAN and Bluetooth Low Energy (BLE) on board

100 Base Ethernet

40-pin extended GPIO

4 USB 2 ports

4 Pole stereo output and composite video port

Full size HDMI

CSI camera port for connecting a Raspberry Pi camera

DSI display port for connecting a Raspberry Pi touchscreen display

Micro SD port for loading your operating system and storing data

Upgraded switched Micro USB power source up to 2.5A

Microcontroller ATmega328p (Arduino Based), 16MHz, Digital I/O Pins: 14 (of which 6 provide PWM output), Flash Memory: 16KB (of which 2KB used by boot loader)

Each platform should have Bread DC Power Supplies +12V, -12V, +5V & - 5V.

TFT Touch Display: -

800×480 high resolution.

Capacitive touch control.

Supports Raspberry Pi, and driver is provided (works with custom Raspbian directly).

Supports BB Black, comes with related images like : Angstrom.

Supports Banana Pi / Banana Pro, comes with related images like : ubuntu, Raspbian.

Not only for mini-PCs, it can work as a computer monitor just like any other general HDMI screen (touch function is unavailable in this case).

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