Project Development Platform-Advance

Model : SD-907

SINCOM SD-907 Project Development Platform-Advance is an exceptional and all-encompassing trainer that is well-suited for the assembly designed for the development of DIY Electronics Project on Bread Board Platform. This trainer offers the capability to apply fixed & variable DC/AC voltages, as well as features such as a TTL Logic Inputs generator, TTL Logic Output Indicators, a Mono Pulse generator, Audio Amplifier, Speaker, Relay, Seven Segment Display, Electronics components bank, Arduino Board, Bluetooth Module, USB Module, RF Wireless transceiver pair, Wi-Fi Module and a Digital DC Volt Indicator. This Trainer provides a formal and sophisticated solution for the construction and evaluation of DIY Electronic Projects.

Features

- ❖ Suitable for a wide range of DIY Electronics Projects
- ❖ One Bread Boards Platform with 840 tie points
- ❖ Incorporates both Fixed and Variable DC and AC Power Pack
- ❖ Includes 09 TTL Logic Inputs Generator switches
- ❖ Provides 06 Bicolor LEDs for TTL logic Output Indicator
- ❖ Mono Pulse Generator
- ❖ $3^{1/2}$ Digit Digital DC Volt Indicator
- ❖ Includes Basic Electronics component bank
- ❖ Includes Arduino Board, Bluetooth Module, USB Module
- ❖ Includes RF Wireless transceiver pair, Wi-Fi Module
- ❖ Audio Amplifier with Speaker, Relay and Seven segment Display
- ❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect external Function Generator and Oscilloscope
- ❖ Interconnections by 2mm high quality banana sockets and pins.

Technical Specifications

- ▪ AC Mains Power Supply : 230V ±10%, 50Hz
- ▪ Regulated Fixed DC Power Supply : +5V,+9V,+12V, -5V,-9V, +12V /1A
- ▪ Variable DC Power Supply : Variable 0 to +12V
- ▪ Variable AC Power Supply : Variable 0 to 12V, 50Hz
- ▪ Digital TTL Logic Input Generator : 09 SPDT switches
- ▪ Digital TTL Logic Output Indicator : 06 Bi Color LEDs
- ▪ Mono Pulse Generator : 01 Manual
- ▪ Digital Voltmeter : DC 0-20V, Red Color $3^{1/2}$ Digit LED Display
- ▪ No. of Bread Boards : 01
- ▪ Bread Board Tie Points : 840
- ▪ Transformer : Step Down Centre Tap 12-0-12V/500mA
- ▪ Components Bank : Resistor (5), Capacitor (5), Inductor (2),Relay (1), Speaker (1)
- ▪ Potentiometer : 02 Nos. 10K, 100K

- Seven Segment Display   : 01
- Audio Amplifier   : Mono 1W
- Microcontroller Board   : Arduino UNO R3
- Interfacing Boards   : USB Module
- RF Connectivity   : RF Wireless Transceiver pair, Wi-Fi, Bluetooth Module
- Weight   : 3.0 kg (approx)
- Dimensions (mm)   : L 444 x W 127 x H 539
- Interconnections   : 2mm Banana sockets
- Operating Temperature   : 0-50^{0}C, 80% RH

Learning Scope

- To Study the operation of Trainer for various inputs and outputs provided on the board.
- To analyze the Power supply section.
- To investigate the Logic Generator, Indicators and Mono clock pulse generator.
- To investigate the various interfacing boards.
- To proficiently construct the desired Project on the bread board and interfacing boards
- To thoroughly test the assembled circuit.

Other Instruments Required : Nil

Accessories Included : Set of Patch Cord and Details Instruction Manual

Subject to Change