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Email: sales@naugralabequipments.com

#### **Product Name:**

Mobile Phone Trainer

### **Product Code:**

NLAB-ELECTRONICSAB210031



## **Description:**

Mobile Phone Trainer

## **Technical Specification:**

MOBILE PHONE TRAINER kit has capability of full duplex mobile communication. Provides basic theory and working fundamentals of a

2G hand set based on the. This trainer kit designed with a view to provide network, power supply,

Practical experience on this board carries great educative value for Science and Engineering Students.

## Features:

- 1. Real time Mobile Operation
- 2. Expanded and open trainer
- 3. Full understanding of mobile phone working
- 4. Frequency measurement and band verification

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- 5. Provides study of all sections in mobile phone
- 6. TX/RX Frequency measurements
- 7. 2G technology & GMSK signals
- 8. GSM data rate
- 9. Detail study of User Interface Control signals
- 10. Detail study of SIM Operation
- 11. Battery identification and charging study
- 12. Switch Faults

**Technical Specifications:** 

Cellular System : EGSM/GSM 900

Rx Frequency Band: EGSM 925, 960MHz

: GSM 900, 935, 960MHz

Tx Frequency Band: EGSM 880, 890MHz

: GSM 900, 890, 915MHz

Output Power: +5V, +33dBm/32mW, 2W

Channel Spacing: 200 KHz

Antenna: Loop type, 50W

Display: 84 x 48 pixels

On Board sections: Antenna, Keypad, SIM, Charging Circuit, Clock, User interface such as Buzzer, Vibrator,

LEDs.

No. of test points: 54

No. of switched fault: 20

Features that can be set: Screen savers, Ring tones, Logos, SMS etc.

Accessories included: Battery, Mains cord, Manual, Hands Free Kit

Power Requirement: 220V ± 10% 50 Hz

Power consumption: 3.6 Watts (Approx)

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Fuse: 1.5 amps

### Experiments That Can Be Performed:

- 1. To study and measure frequency band
- 2. To study and measure the GMSK signals such as Tx.1/ QRx1/Q
- 3. To study and observe the system CLK
- 4. Observation of Audio signal
- 5. To study and measure the power supply
- 6. Study of charging phenomena with fault insertion
- 7. Study and measure PWM signal of UI circuit such as Vibrator LED buzzer
- 8. Measurement of LED with fault insertion
- 9. Keypad study with fault insertion
- 10. Observe and measure the SIM Card CLK with fault insertion

# **Naugralabequipments**

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