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Product Name :	**Product Code :**
Mobile Phone Trainer	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

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)

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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