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Product Name :
Mobile Phone Trainer & Lab Kit for Vocational Training and Didactic Labs

Product Code :
CON-003-NE

Description :

Equipment for Education, Engineering and Vocational Training - GSM Mobile Phone Trainer Kit - 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 NOKIA 3310/3315. This trainer kit designed with a view to provide network, power supply, charging & user interface circuits for their practical and theoretical study based on NOKIA 3310/3315. Practical experience on this board carries great educative value for Science and Engineering Students.
Features:
Real time Mobile Operation
Expanded and open trainer
Full understanding of mobile phone working
Frequency measurement and band verification
Provides study of all sections in mobile phone
TX/RX Frequency measurements
2G technology & GMSK signals
GSM data rate
Detail study of User Interface Control signals
Detail study of SIM Operation
Battery identification and charging study
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:
To study and measure frequency band
To study and measure the GMSK signals such as Tx.1/ QRx1/Q
To study and observe the system CLK
Observation of Audio signal
To study and measure the power supply
Study of charging phenomena with fault insertion
Study and measure PWM signal of UI circuit such as Vibrator LED buzzer
Measurement of LED with fault insertion
Keypad study with fault insertion
Observe and measure the SIM Card CLK with fault insertion

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