

Scientech's Mobile Phone Trainer ST2132 provides basic theory & working fundamentals of a 2G handset based on the most popular handset Nokia 3310/3315. It provides network, power supply, charging & user interface circuit's for their detailed block wise study.



Technical Specifications

- Cellular System :** EGSM/GSM 900
- Rx frequency band :** EGSM 925 ...960 MHz
GSM 900 935...960 MHz
- Tx frequency band :** EGSM 880 ...890 MHz
GSM 900 890 ...915 MHz
- Output power :** +5, +33 dBm/ 3.2 mW ...2W
- Channel spacing :** 200 KHz
- Antenna :** Loop type, 50 W
- Display :** 84 × 48 pixels
- On board sections :** Antenna, Keypad, SIM, Charging Circuit, Clock, User interface such as Buzzer, Vibrator, LEDs.
- No. of test points :** 41
- No. of switched fault :** 25
- Features that can be set :** Screen savers, Ring tones, Logos, SMS etc.
- Accessories included :** Battery, Mains cord, Manual, Hands Free Kit, CD containing Mobile Phone Working Presentation
- Power Supply :** 220 V ±10%, 50 Hz/ 60 Hz on request
- Power consumption :** 3.6 VA (approx.)
- Fuse :** 1.5 amps
- Dimension (mm) :** W 370 × D 265 × H 125
- Weight :** 2.5 Kg (approx.)

- ▣ 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 measurement
- ▣ 2G technology & GMSK signals
- ▣ GSM data rate
- ▣ Detail study of User Interface Control Signals
- ▣ Detail study of SIM Operation
- ▣ Battery identification and charging study
- ▣ Switched Faults
- ▣ CD containing mobile phone working presentation

Experiments that can be performed

- ▣ To study and measure frequency band
 - ▣ To study and measure the GMSK signals such as Tx I/Q, Rx I/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 LCD with fault insertion
 - ▣ Keypad study with fault insertion
 - ▣ Observe and measure the SIM Card CLK with fault insertion
- and many more.....

