



Introduction

4G Smart Phone Trainer is an ideal training equipment to teach the operation of 2G Dual SIM Mobile phone. The complete Block of Mobile Phone is printed on single PCB for easy understanding of function of different blocks. Test points allow the analysis and monitoring of the signals in different sections. By using the fault simulation method, it is possible to introduce the most common breakdown and their rectification.

Technical Specifications

- Network : GSM / HSPA / LTE
 - ♦ 2G bands : GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2
 - ♦ 3G bands : HSDPA 850 / 900 / 1900 / 2100
 - ♦ 4G bands : LTE band 1(2100), 3(1800), 5(850), 8(900), 20(800), 40(2300)
- CPU : Exynos 3475, 1.3GHz Cortex-A7 quad-core Mali-T720
- Operating system : Android
- RAM : 1 GB
- Internal Storage : 8 GB
- External Expandable storage : Up to 256 GB
- Display
 - ♦ Type : Super AMOLED capacitive touch screen, 16M colors
 - ♦ Size : 4.7 inches, 60.9 cm² (~64.7% screen-to-body ratio)
 - ♦ Resolution : 540 x 960 pixels, 16:9 ratio (~234 ppi density)
- Communication
 - ♦ WLAN : Wi-Fi 802.11 b/g/n, Wi-Fi Direct, hotspot
 - ♦ Bluetooth : 4.1, A2DP
 - ♦ GPS : Yes, with A-GPS, GLONASS GPS
 - ♦ Radio : FM radio, RDS, recording
- Camera
- Selfie Cammera : 2 MP, f/2.2
- Rear Cammera : 5 MP
- Sensors : Accelerometer, proximity
- Battery : Li-Ion 2000 mAh battery
- Connectivity : USB 2.1Version, 3.5mm Stereo Ear jack Bluetooth Version v4.1
- **Weight** : 3 Kg Approx
- **Dimension** : 200 x 300 x 73mm

On-board Blocks

- Dual SIM block : Two no of DUAL SIM Slots is provided.

Note: Specifications are subject to change.

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- Li-ion battery block : Battery Block is provided
- Display block : 4.7 inch TFT Display is provided
- Power & Volume block : Keypad block with Power and Volume control
- USB block : USB block is provided for data Transfer with Computer
- Power supply block : Power supply block for charging the battery.

Key is provided

- MIC block : MIC for Audio Input is provided.
- Hand free MIC block : Hand free MIC block is provided
- Speaker block : Speaker block is provided
- Ear phone block : Ear Phone block is provided to connect

Ear phone for Audio output

- Vibrator motor block : Vibrator motor block is provided

- 43 Test points are provided to analyze signals at various points.
- 11 no's of Fault Switches with 34 faults are Provided
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB with Block Diagram.
- AC Input : 230V \pm 10%, 50 Hz
- Attractive ABS Enclosure
- User Manual for Experiments

Experiments

01. To study the 4G Smart Phone Trainers.
02. Study of Block Diagram of the trainer
03. Working of 4G Smart Phone Trainer
04. Charging of 4G Smart Phone Trainer
05. Voltages and signals at different test points
06. Study of fault switches

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