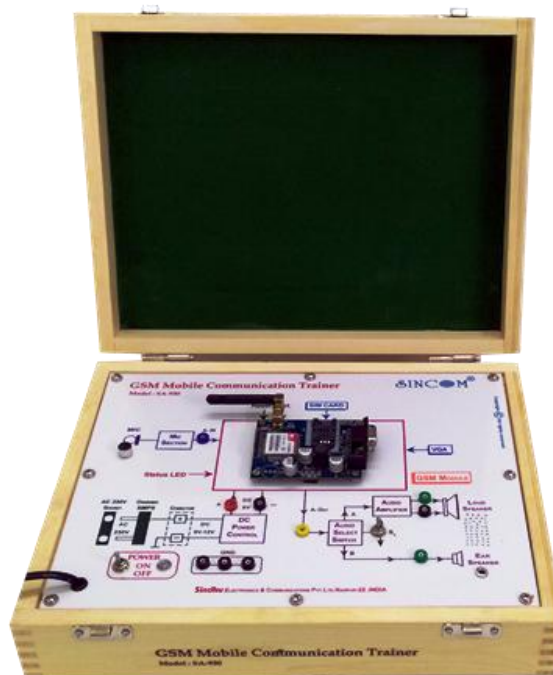


GSM Mobile Communication Demonstrator

Model : SA-930



SINCOM SA-930 GSM Mobile Communication Demonstrator is an exceptional and all-encompassing trainer designed specifically for the study of the installation, operational workings, signal analysis, and voltage analysis of the Global System for Mobile Communication (GSM). This trainer is highly comprehensive, easily understandable, and enables practical experimentation on GSM mobile communication networks. It offers the capability to transmit voice, data, and SMS (Short Message Service) within the GSM network. Additionally, it provides the facility to examine the real-time operation of GSM mobile modems, which can be controlled through AT Commands via a PC interface and SIM card. The device is equipped with an on-board SIM Card Socket, MIC, Speaker, and Earphone for added convenience and functionality.

Features

- ❖ GSM Mobile Modem
- ❖ SIM Card Socket
- ❖ PC Interface software
- ❖ Audio, Data, SMS send receive
- ❖ AT Command
- ❖ On Board MIC and Speaker
- ❖ Ear Phone Out
- ❖ SMPS Power Supply
- ❖ LED Indication
- ❖ Power ON/OFF Controls on board
- ❖ Functional Block Diagram printed in multicolor on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality elegant wooden cabinet
- ❖ Interconnections by 2mm high quality banana sockets and pins.
- ❖ Maximum Test points to thoroughly explore all facets of the experiments



An ISO 9001:2015 Co.

Technical Specifications

- Power Supply : 110V - 250V AC 50Hz/60Hz
- DC Power Supply : +5V, +12V, 1A Regulated
- MODEM : GSM Mobile Modem
- MODEM Interface : Through PC RS232 / USB port
- Software : Driver Software
- Cellular System : GSM 2G
- GSM Bands : GSM 900/1800
- Uplink (TX) Frequency Band : GSM 900 - 890 to 915 MHz ; GSM 1800 - 1710 to 1785 MHz
- Downlink (RX) Frequency Band : GSM 900 - 935 to 960 MHz ; GSM 1800 - 1805 to 1880 MHz
- Channel Spacing : 200 KHz
- Duplex Spacing : GSM 900 - 45 MHz ; GSM 1800 - 95 MHz
- SIM Card Socket : 01
- SIM Support : GSM smart Single
- SIM Interface : 3V
- Sound : Speaker and Earphone
- MIC : Condenser
- Distortions : 10 to 15% in live program
- Weight : 3.0 kg (approx)
- Dimensions (mm) : L 245 x W 320 x H 115
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-55⁰C, 85% RH

Learning Scope

- To study Basics of Global System for Mobile (GSM) communication.
- To study principle and working of GSM network.
- To study the RF environment of GSM.
- To Study the real time study of GSM.
- To study the AT Commands for various operations.
- To observe & note the signals at the various test points of above sections during the transmission and the reception of a call.

Other Instruments Required : Computer, Digital Multimeter (DMM), CRO.

Accessories Included : Driver Software CD, Antenna, Data Cable, Power Cord, Hands free kit, Patch Cords and Detail Instruction Manual.