



REAL GSM TRAINER

MODEL - GSM100R

This trainer has been designed with a view to provide practical and experimental knowledge of GSM real time technique as practically implemented for cellular telephony.



FEATURES

- GSM mobile communication system experiment kit is tightly close to such teaching syllabus as Mobile Communication and etc, experiment contents are abundant, which could fully meet the teaching requirements of such course as mobile communication on communication's major among colleges and universities.
1. The experiment kit combines with theoretical teaching of Mobile Communication course, reference GSM standard, according to the protocol, it vividly reappears the basic process of mobile station and base station interaction through simulating a base station, among which it has three-layer protocol of GSM communication, and it is probably to analyze such processes as mobile phone network access, pick up, dial, ringing, hang up through logic analyzer during the interaction process of experiment kit (base station) and mobile phone in experiment kit.
 2. The experiment kit has key technology demonstration and experiment of mobile communication, as well as mobile station access, mobile station call, base station call, power control, double computer network full duplex speech communication system experiment, and etc, in addition, it could observe other working state on access computer interface screen of experiment kit.
 3. The experiment kit could realize three kinds of wireless standards, such as GSM900, E-GSM and DCS1800. The three wireless standards could automatically switch and network switch. The experiment kit has its own operation number, therefore it will not exist the problem of charging after mobile phone network access, in addition, users would not be restricted by time and expenses in processing experiments and scientific research.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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Dealer:-

CDMA TRAINER

4. It adopts eight-channel time division multiple access (TDMA) communication technology of frequency division duplex (FDD), 270.833Kbit/s Gaussian minimum shift keying (GMSK) modulation mode and balanced demodulation technology. It could observe experiment waveform and communication data with oscilloscope and logic analyzer.
5. It adopts DSP, FPGA and many kinds of advanced information treatment method to design and realize GSM air interface three-layer protocol, which we process independent intellectual property rights.
6. It realizes the control of emission power that could reach better transmission quality under the condition of unnecessary for the maximum emission power, which can reduce emission power and thus reduce interference to other communications and harm to people from radio frequency to the minimum, therefore it is suitable for users to make experiments and study on the structure of GSM communication system for a long time.
7. It adopts plexiglass baffle for protection

SPECIFICATIONS

1. AC, DC power supply Input : AC 220V±10%
2. Output : DC ±12V±10%, +5V±5%
3. Clock output Frequency output : 13MHz Frequency
4. Radio frequency output Power : 110dbm~-50dbm
5. Spectrum : in accordance with GSM protocol

MODEL - CDMA100R

EXPERIMENTS

1. Experiment kit structure and man-machine interface experiment
2. Orthogonal modulation and demodulation experiment
3. GMSK modulation and demodulation experiment
4. Spectrum analysis principle and experiment
5. Basic coding and decoding method experiment
6. Channel coding method experiment in GSM system
7. Interleave and deinterleave experiment
8. FDD, TDMA principle and experiment
9. Mobile station network access experiment
10. Mobile station call experiment
11. Mobile station called experiment
12. Mobile station technology index and test experiment