The GSM Trainer is a modem or mobile equipment for transmission of voice and data calls as well as SMS (Short Message Service) in GSM Network. To control the GSM modem there is an advanced set of AT commands according to GSM ETSI (European Telecommunications Standards Institute) 07.07 and 07.05 implemented. The GSM standard has established itself across continents. The trainer is well suited for studying AT commands by camping to real networks using SIM card.

- Low Cost
- Simple / Easy Operation
- Easy understanding of AT commands
- Real Time operation
- External Antenna

Technical Specifications

GSM capability	:	GSM 900 / 1800, E - GSM
GSM data services	:	Asynchronous, Transparent & Non Transparent modes. 14.4 kbits / s
SIM Interface	:	3 V

RF characteristics :
Receiver

EGSM Sensitivity	:	< -104 dBm
DCS Sensitivity	:	< -102 dBm
Selectivity @ 200 Khz	:	> +9 dBc
Selectivity @ 400 KHz	:	> +41 dBc
Dynamic range	:	63 dB
Intermodulation	:	> -43 dBm
C-channel rejection	:	9^3 dBc

Transmitter

Maximum output power	:	33 dBm ± 2 dB (EGSM)
Maximum output power	:	30 dBm ± 2 dB (DCS)
Minimum output power	:	5 dBm ± 5 dB (EGSM)
Minimum output power	:	0 dBm ± 5 dB (DCS 1800)
Noise in 925 - 935 MHz	:	< -67 dBm
Noise in 935 - 960 MHz	:	< -79 dBm
Noise in 1805 - 1880 MHz	:	< -71 dBm
Phase error at peak power	:	< 5° RMS
Frequency error	:	± 0,1 ppm max
Power supply	**:**	9 V
Current consumption	**:**	Max 500 mA

Experiments that can be performed

- GSM Theory & Standards
- Understanding of GSM technology, its network, GSM capability & data services.
- Understanding RF environment & study of GSM network by actually connecting to the GSM environment by any service provider.
- Command Level Study
- Real Time study of GSM 07.05 & 07.07 commands in various
- Categories :
  - Command concerning modem & sim card hardware
  - Network registration commands
  - Call control command
  - Call setting commands
  - Call information commands
  - Phone Book commands
  - Serial link control commands
  - Message setting commands
  - Storing/restoring commands
  - Error message handling & survey & many more....

Included Accessories

Power adapter - 9 V / 500 mA
RS - 232 serial cable
GSM Antenna (900/1800) & cable (30cm) coaxial plug
Handsfree kit
CD
Manual

Note: Specifications are subject to change.

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