

The GSM module (Global System for Mobile communication F 35 is a mobile station for transmission of voice and data calls as well as (SMS - Short Message Service) in GSM Network.

To control the GSM module there is an advanced set of AT commands according to GSM ETSI (European Telecommunications Standards Institute) 07.07 and 07.05 implemented.

Modem utilizes the GSM standard for cellular technology. The GSM standard has been established for use in the European community and elsewhere. GSM modem is actually a low power radio transmitter and receiver. It sends out and receives radio frequency energy. When modem is used the cellular system handling calls control both the radio frequency and the power level of cellular modem.

Technical Specifications:

- * EVAL-Board
 - * Adapter PCB for A2D or F35 called adapter
 - * Adapter PCB for CM2C or Cm35 called CM adapter
 - * Wall mount power adapter
 - * 9-Pin serial cable (pin to pin direct, male to female)
 - * GSM antenna (900/1800) and cable (30cm) with coaxial plug
 - * Coaxial adapter MMCX - FME
 - * Coaxial adapter MC Card -FME
 - * Head-set with RJ-45 plug
 - * Set of connectors
 - * 2 Pieces 40 pin stacking connector (plug and socket)
 - * 2 Pieces coaxial antenna plug (plug and socket)
 - * 2 Pieces 15-pin cable connector (plug and socket)
 - * 2 Pieces external SIM card reader
 - * 3 Pieces short circuit bridges
 - * 4 Pieces mounting clamps
 - * 4 Pieces dowel
 - * CD
 - * A2D-Test Software
- Accessories included:
- * Theory manual
 - * Operating manual
 - * FAQ & application manual
 - * GSM glossary & used abbreviations
 - * Power point presentation on GSM



Experiments that can be Performed:

- 01. GSM Theory & Standards**
Understanding of GSM technology, its network GSM capability & data services.
- 02. Component Study**
Understanding the concept of RF component & different parts which is related of RF environment like GSM 900/1800 dual band. Antenna, RF module & various connectors & evaluation board etc.
- 03. RF Environment:**
Understanding RF environment & study of GSM network by connecting to the GSM environment by any service provide
- 04. Command Level Study**
Real Time study of GSM 07.05 & 07.07 commands in various categories;
 - a) Command concerning modem & simcard hardware
 - b) Network registration commands
 - c) Call control command
 - d) Call setting commands
 - e) Call information commands
 - f) Phone Book commands
 - g) Serial link control commands
 - h) Message setting commands
 - i) Storing / restoring commands
 - j) Error message handling & survey & many more.....
- 5. Measurement of Various Signals**
Signals can be measured on 40 pin connector (Test points) like SIM reset, SIM Clock, SIM data RTC etc.

Note: Specifications are subject to change.

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