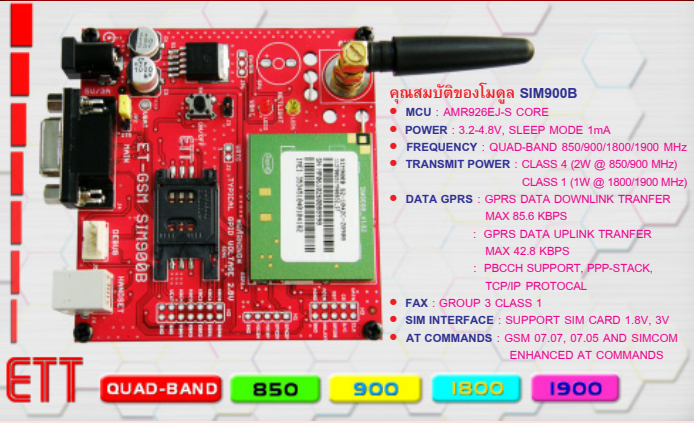
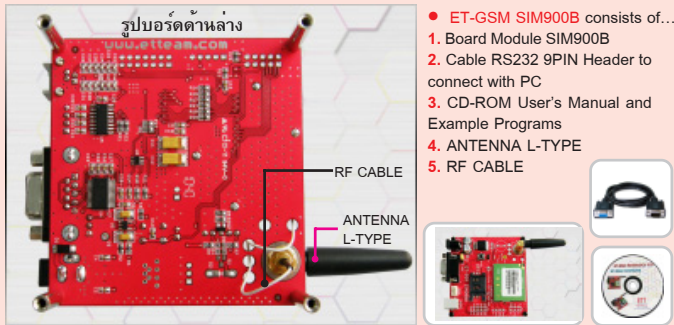


ET-GSM SIM900B
(P-ET-A-00435)



ET - GSM SIM900B is a board of phone module that uses SIM900B from SIMCOM. It supports QUAD-BAND Frequencies; 850/ 900/ 1800/ 1900MHz and service systems of TRUE, DTAC, AIS. It communicates and commands the phone module through PORT RS232 in the format of AT COMMAND. There is Connector DATA, POWER SUPPLY, Connector RS2332 as DB 9PIN for general use and 4PIN for DEBUG. It can be applied to many ways; for example, it sends SMS to notify driver to protect car from stolen, top up money for cell phone, send data from GPS System of car.



- **ET-GSM SIM900B** consists of...
- Board Module SIM900B
 - Cable RS232 9PIN Header to connect with PC
 - CD-ROM User's Manual and Example Programs
 - ANTENNA L-TYPE
 - RF CABLE

Specifications of Board ET-GSM SIM900B

- Have SW to ON/OFF the operation of Module internal board
- Have SOCKET SIM to support SIM CARD and Circuit ESD to protect SIM from damaged
- Have 2 Circuit REGULATES to use with +5VDC DC ADAPTER
 - Use Circuit 4.2V/3A IC REGULATE to supply enough energy to Module SIM900B to use with 2 WATT GSM900 without problem
 - Have Circuit 2.8V/150mA REGULATE to supply energy to Circuit Logic Converter
- Have LINE DRIVER to convert signal from SIM900B to RS232, including cable for DEBUG
- Have LED to display operating status of module, NETWORK connection, status of POWER ON/POWER OFF
- Have Connector RJ11 HAND SET (microphone and headphones of telephone) to talk, call and receive
- Have other connecting points such as KEY BOARD, DISPLAY, GPIO, PWM, ADC
- Use 5V-12VDC POWER SUPPLY (current depends on distance of 2 stations to send-receive data and Service System), we recommend to use ET-SWITCHING ADAPTER 5V/1.2A TYPE J for general use.
- PCB size: 8.00 X 8.50 cm

<p>- SIM900B GSM MODULE (A-IC-M-00021)</p>	<p>- CC-CZD-SAJ-3M (ANTENNA 3 M CABLE 5MA) (A-IC-M-00013)</p>	<p>- CC-BW-G-SAJ (ANTENNA L-TYPE) (A-IC-M-00011) -</p>
<p>- ET-SWITCHING ADAPTER 5V 1.2A TYPE J (A-AP-A-00059) INPUT: AC INPUT 100-240VAC MALE 2PIN Header OUTPUT: 5VDC 1.2A Connector 2.5mm. FEMALE JACK; inner is Cathode (-) and outer is Anode (+).</p>		

ET-MINI MT8870 (P-ET-A-00440)



It is addition board that is designed to support the operation of ET-GSM SIM300, ET-GSM SIM900B or other GSM Boards that have socket for HANDSET. It can be modified to receive data from pressing key of incoming telephone call. It checks Signal DTMF by using IC No.MT8870 that decodes the signal as 4BIT BCD to control applications.

- Use IC DTMF No.MT8870
- RJ11 to interface with Module GSM
- LED to display operating status of PWM, STD, Q4, Q3, Q2, Q1
- Connector 10PIN HEADER MALE and FEMALE
- Cable RJ11 Header with 14cm. length
- CD-ROM manual



ET-REMOTE MP3 V2
(P-ET-A-00471)



The latest Board MP3 Decoder that is cheap at the price. It receives Commands through RS232 PORT to control to play files from MEMORY CARD 'SD-MICRO' in the format of MP3 or WAV. It uses the device No.VS1003B from VLSI to be MP3 Decoder; this IC MP3 Decoder has high-quality sound, so it is suitable for applying for advertisement, exhibition, or museum.

Specification of ET-REMOTE MP3 V2

- Use CPU No.STM8S105 and VS1003B Decoder
- Has SOCKET on board for inserting SD CARD #SD-MICRO
- There are **4 operation modes**;
 - COMMAND MODE:** It controls to play files by Command from RS232 PORT.
 - LIST SONG MODE:** It calls to see list of song file and order of file in SD-MICRO.
 - MP3 SW MODE:** It controls the operation by SW. on board.
 - TRIG MODE:** It uses external OUTPUT to TRIG and choose files. There are 16 INPUTs, or it is interfaced to be 16 SW. for TRIG to choose 16 files.
- Every time it ends any file, it gives OUTPUT LOGIC 0 through CONNECTOR and it is sent in the format of COMMAND EOF through RS232 for COMMAND MODE.
- Only supports file MP3 or WAV; it cannot RECORD.
- Support MICRO-SD from 2GB to 16GB in the format of FLASH 16 and 32.
- Set 4 BAUDRATE; 4800, 9600, 57600, and 115200
- Use DC 5V with Connector TYPE B (it is compatible with POWER SUPPLY from ETT version 'ET-SWITCHING ADAPTER 5V 1.2A TYPE B' *170.-)
- Use sound OUTPUT in the format of HEAD-PHONE JACK STEREO
- PCB size: 8.00 x 6.10 cm.
- ET-REMOTE MP3 V2 Set consists of...

- Board ET-REMOTE MP3 V2
- CD-ROM User's Manual
- Cable ET-RS232 DB9 PIN
- Cable 4 PIN RS232

