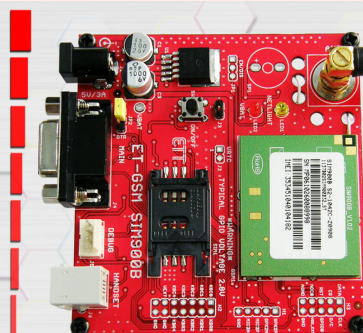


**ET-GSM SIM900B**  
(P-ET-A-00435)

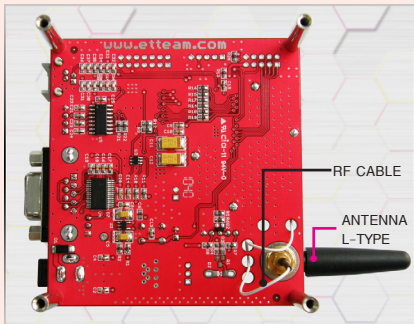


**SPECIFICATION SIM900B**

- MCU : AMR926EJ-S CORE
- POWER : 3.2-4.8V, SLEEP MODE 1mA
- FREQUENCY : QUAD-BAND 850/900/1800/1900 MHz
- TRANSMIT POWER : CLASS 4 (2W @ 850/900 MHz)  
CLASS 1 (1W @ 1800/1900 MHz)
- DATA GPRS : GPRS DATA DOWNLINK TRANSFER  
MAX 85.6 KBPS  
GPRS DATA UPLINK TRANSFER  
MAX 42.8 KBPS
- PBCC SUPPORT, PPP-STACK, TCP/IP PROTOCOL
- FAX : GROUP 3 CLASS 1
- SIM INTERFACE : SUPPORT SIM CARD 1.8V, 3V
- AT COMMANDS : GSM 07.07, 07.05 AND SIMCOM ENHANCED AT COMMANDS

**ETT** QUAD-BAND 850 900 1800 1900

**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 RS232 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 Users 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><b>- SIM900B GSM MODULE</b> (A-IC-M-00021)</p> 	<p><b>- CC-CZD-SAJ-3M</b> (ANTENNA 3 M CABLE 5MA) (A-IC-M-00013)</p> 	<p><b>- CC-BW-G-SAJ</b> (ANTENNA L-TYPE) (A-IC-M-00011)</p> 
<p><b>- SIM300CZ GSM MODULE</b> (A-IC-M-00010)</p> 	<p><b>- ET-SWITCHING ADAPTER 5V 1.2A TYPE J</b> (A-AP-A-00059)</p> <p>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-GSM SIM300CZ V1.0**  
(P-ET-A-00353)



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**ET-GSM SIM300CZ V1.0**

**ANTENNA L-TYPE**

**SIM300CZ MODULE**

- POWER : 3A - 4.5V, CLASS 1 (1W)
- SLEEP MODE 2.5mA
- FREQUENCY : TRI-BAND EGSM900 DCS1800 PCS1900
- TRANSMIT POWER : CLASS 4 (2W)
- DATA GPRS : GPRS DATA DOWNLINK TRANSFER MAX. 85.6 KBPS  
GPRS DATA UPLINK TRANSFER MAX. 42.8 KBPS
- SUPPORT THE PROTOCOLS PAP TCP/IP
- FAX : GROUP 3 CLASS 1
- SIM : SUPPORT SIM CARD 1.8, 3V

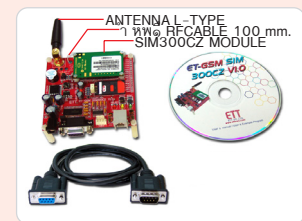
**ETT** TRI-BAND EGSM900 DCS1800 PCS1900

**ET-GSM SIM300CZ V1.0** which is a board with module telephone version SIM300CZ from SIMCOM Co., Ltd. supports TRI-BAND cellular phone frequencies; EGSM900, DCS1800, and PCS1900. So, it can support all network services; TRUE MOVE, DTAC and AIS.

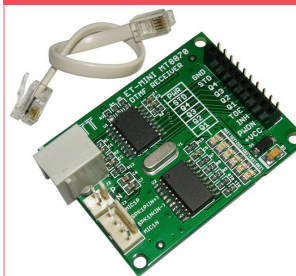
It can communicate and command module telephone through PORT RS232 in the type of AT COMMAND. There are Connectors on board to interface with Module, POWER SUPPLY, Connector RS232 9PIN type for interfacing and 4 PIN type for debugging and interfacing with ETT Boards, TRI-BAND cable and antenna. User can apply it in many applications such as sending GPS data from car, sending SMS to warn people and top up mobile by vending machine.

**Specifications of Board ET-GSM SIM300CZ V1.0**

- SW.ON/OFF operation of Module inside board
- SOCKET SIM supports SIM CARD with ESD Circuit to protect SIM CARD from damaged
- 2 REGULATE Circuits can be used with +5VDC DC ADAPTER up
  - 4.2V/3A REGULATE Circuit can be used in the system 2-WATT GSM900MHz without any problem
  - 3.3V/1A REGULATE Circuit can supply power to external circuit and separate power supply from Module SIM300CZ
- LINE DRIVER to convert signal from SIM300CZ to RS232 for all cables and including the cable for debugging
- LED to display the operational status inside board, connecting with NETWORK, Status POWER ON/OFF of Module
- Connector RJ11 HAND SET (it is speakerphone and headset of telephone) for speaking, calling and receiving
- Other connecting points; KEYBOARD, DISPLAY, GPIO, BATTERY CHARGER, A TO D and etc.
- POWER SUPPLY 5 - 12VDC (its current depends on the short or long distance from the station and including system of Network Service);
- PCB size: 9 x 9 cm.
- ET-GSM SIM300CZ V1.0 includes Board Module SIM300CZ, RS232 9 PIN Cable for interfacing PC, CD-ROM for User's Manual with Examples such as commands to call, receive, send SMS, receive SMS, SIM COMMAND, and information of SIM300CZ, ANTENNA L-TYPE, PF CABLE



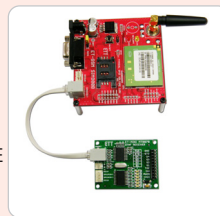
**ET-MINI MT8870** (P-ET-A-00440)



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



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