

SIEMENS

GSM-Modul A1

GSM Terminal for Voice and SMS.



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GSM (Global System for Mobile communication) has meanwhile turned into an internationally adopted standard for digital mobile communication. It offers not only the transmission of voice but also of data and short text messages (SMS Short Message Service) of up to 160 characters.

Due to the features of GSM this standard is not only used for handheld terminals (e.g. mobile phones) but is increasingly being integrated into stationary or automotive systems

The GSM module A1 is specifically designed for the integration into automotive systems where the use of a handheld terminal is not suited but the mobile transmission of voice and SMS is required.

Possible applications are:

- Integrated Driver Information Systems (combining audio, navigation and communication)
- GSM phone integrated into a car radio
- GSM based emergency systems
- Traffic Telematics Terminal

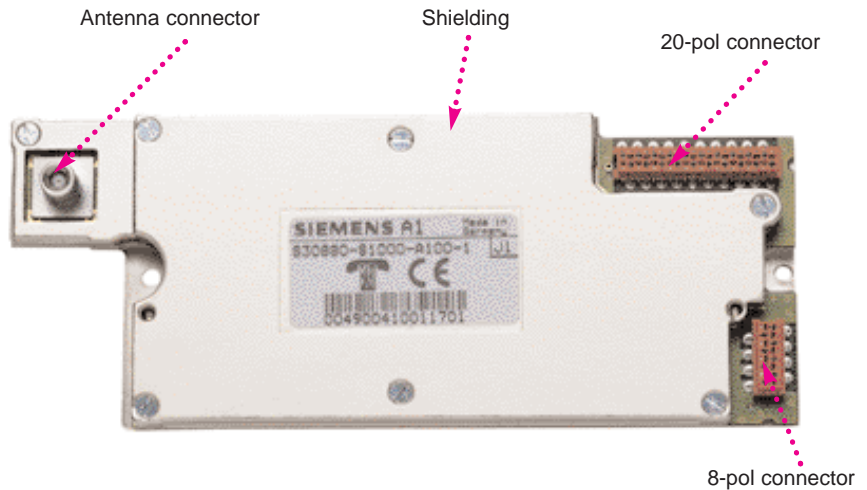
All features of the GSM module A1 are controlled via a serial interface using AT commands. Additional interfaces for external antenna, external SIM reader, power supply as well as microphone and speaker exist.

Features

- Voice (TS11)

Short Message Service

- SMS Mobile Originated (TS22)
- SMS Mobile Terminated (TS21)



Supplementary Services

- Call Barring
- Call Forwarding
- Calling Line Identification Presentation
- Calling Line Identification Restriction
- Call Hold
- Multi Party

Interfaces

- 20-pol AMP-Micro-Match for
U_{POWER_HF} Power Radio
U_{POWER_LOG} Power Logic
Rx, Tx, GND Serial Interface
19200bit/s
- AUDIO Speaker Output
- HF_MICRO Micro Input
- 8-pol AMP-Micro-Match connector
external SIM reader
- SW interface with AT commands
conforming GSM07.07 and
GSM07.05

Technical Data

- GSM Phase: II
- Power Class: 4/2W
- Sensitivity: -106 dBm
- Dimensions: 128,5 x 51 x 14,2 mm
- Weight: 124g
- Volume: 89,4 cm³
- Memory:
SRAM: 32kByte,
FLASH-EEPROM: 512kByte
EEPROM: 4kBit
- Operating Temperature:
-20°C to +65°C

Power Supply

- Power Radio
U_{POWER_HF} 6,7V ± 0,15V, I < 1,8A
- Power Logic
U_{POWER_LOG} 5V ± 0,5V,
20mA < I < 200mA

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