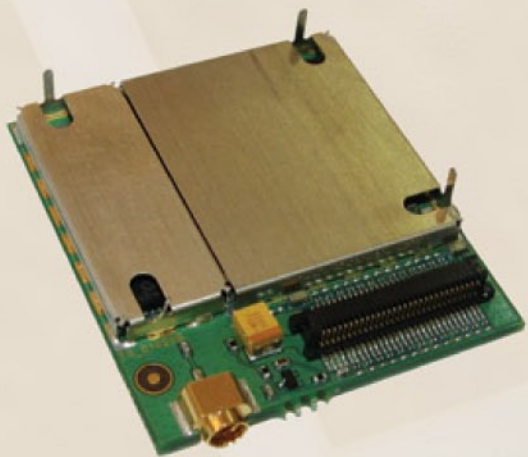




## GSM/GPRS Data Module



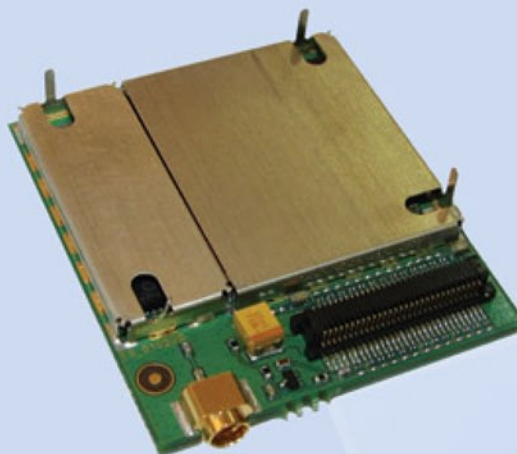
TM2 is a low power consumption, quad band, GSM/GPRS class 10 data module with speech capability.

Main TM2 Applications are Automotive (Telematics, and Car Security) and M2M (Automation, Real Time Data Transmission, Remote Metering and Control, Surveillance and Security).

### FEATURES:

- Supplementary functionality to meet the user's requirements:
  - o Integrated TCP/IP Stack
  - o Read/Save Flash data
  - o GPIO controlling
- Supplementary GSM features:
  - o CSD
  - o SMS (text/data)

- Quad-Band GSM 850 / 900 / 1800 / 1900 MHz
- Output power:
  - class 4 (2 W) for EGSM 850/900
  - class 1 (1 W) for GSM 1800/1900
- Weight: < 10 g
- Supply voltage range: 3.5 ... 4.2 V (Typ: 3.8 +/- 0.2 V)
- Ambient temperature: -20 °C...+55 °C
- Dimensions:
  - 33.5 mm x 38.8 mm x 5.6 mm (with SIM holder)
  - 33.5 mm x 38.8 mm x 3.3 mm (without SIM holder)
- Power consumption:
  - Idle : < 2 mA
  - In call (GSM pwr. lev. 5): 300 mA
- Interfaces:
  - MMCX 50 ohm RF antenna connector
  - CviLux 60-pin board-to-board connector
  - Onboard SIM card holder supporting 1.8 and 3V cards
  - 2 serial ports
- I2C bus, SPI bus, 2 x analog in (ADC)\*
- GSM/GPRS protocol stack release 99
- Subset of GSM 07.05, GSM 07.07 and proprietary AT commands
- SIM application toolkit (SAT Release 99)
- Fax: Group 3, class 2.0
- GPRS multi slot class 10
  - Full PBCCH support
  - MS class B
  - Coding scheme 1- 4
- Circuit Switched Data: Up to 9.6 kbit/s, Transparent/Non-transparent mode
- Supplementary Services
- SMS: Via GSM or GPRS, Point-to-point MO and MT, Text and PDU mode
- SMS cell broadcast
- Voice:
  - HR, FR, EFR and AMR
  - Basic hands-free
  - Echo cancellation



## GSM/GPRS Data Module

\* Accessible via M2M on client's request

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