



GSM/GPRS Data Module

TM1



TM1 is very small, surface mount module with QFN type pins.

TM1 is a low power consumption, dual band, GSM/GPRS class 10 data module with speech capability.

Main TM1 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:
 - Integrated TCP/IP Stack.
 - Read/Save Flash data.
 - GPIO controlling.
- Supplementary GSM features:
 - CSD.
 - SMS (text/data).
- Dual-Band GSM 900 / 1800 MHz or 850 / 1900 MHz.

- Output power:
 - class 4 (2 W) for EGSM 850/900.
 - class 1 (1 W) for GSM 1800/1900.
- Weight: < 5 g.
- Supply voltage range: 3.5 ... 4.2 V (Typ: 3.8 +/- 0.2 V).
- Ambient temperature: -20 °C...+85 °C.
- Dimensions:
 - 32.0 mm x 20.8 mm x 2.87 mm.
- Power consumption:
 - Idle : < 2 mA.
 - In call (GSM pwr. lev. 5): < 300 mA.
 - GPRS (4+1): < 450mA.
- Interfaces:
 - 1 serial port.
- I2C bus, SPI bus (or I2S/DAI interface), analog in (ADC) *
- 13 GPIOs.
- 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.



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*Accessible via M2M application on client's request. This can be done by Teltonika.