



GSM/GPRS Module

TM1Q

TM1Q is very small, surface mount module with QFN type pins.

TM1Q is a low power consumption, quad band, GSM/GPRS class 10 data module with speech capability.

Main TM1Q 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.
 - Audio parameters tuning commands.
- Supplementary GSM features:
 - CSD.
 - 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: < 5 g.
- Supply voltage range: 3.5 ... 4.2 V (Typ: 3.8 +/- 0.2 V).
- Operating temperature: -20 °C...+85 °C.
- Dimensions:
 - 32.75 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.
- AT commands: 3GPP 27.005, 3GPP 27.007 and proprietary
- MUX support: 3GPP 27.010
- SIM application toolkit (SAT Release 99).
- Fax: Group 3, class 2.0.
- GPRS multislot 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.
- RoHS compliant

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

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