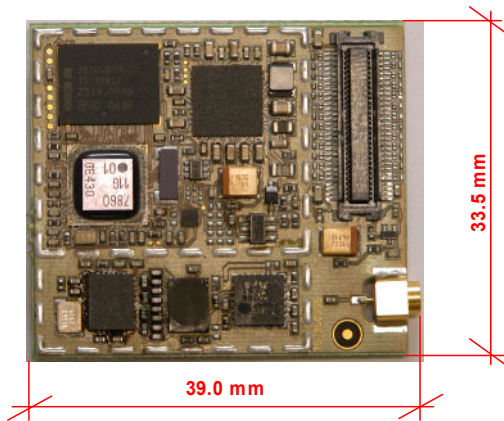


# 3-2000733

## GSM/GPRS Data Module Product Description

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

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



### Hardware

- Dual-Band GSM 900 / 1800 MHz
- Output power:
  - class 4 (2 W) for EGSM 900
  - class 1 (1 W) for GSM 1800
- 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 39.0 mm x 5.6 mm
- Power consumption
  - Idle : < 2 mA
  - In call (GSM pwr. lev. 5): 300 mA
- Main components
  - Base band processor: Infineon E-GOLDlite PMB7860
  - Power Management: Infineon E-POWERlite PMB6814
  - RF Transceiver: Infineon SMARTiSD2 PMB6271
  - Antenna switch: Epcos DGM081M03
  - Power Amplifier: TriQuint TQM7M4006
  - Memory: Intel Multi-Chip Package 64Mbits 1.8V Flash and 16Mbits RAM

### Software

- 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
- M2M compatible

### Interfaces

- MMCX 50 ohm RF antenna connector
- Molex 60-pin board-to-board connector
- Onboard SIM card holder supporting 1.8 and 3V cards
- 2 serial ports
- Debug test points

Mipot reserves the right to change specifications without notice.

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