

SAGEM MO200

YOUR M2M SOLUTION

- GSM, GPRS Class 10
- Full Quad band 850/900/1800/1900
- Low power consumption (less than 2mA in Idle mode)
- Digital Audio interface
- M2M oriented
- Ultra high connectivity
- TCP-IP stack, MMS Client Embedded

going 
wireless



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SAGEM introduces its new M2M module MO200 with embedded services for Internet connectivity. Based on well-known Internet protocols, MO200 is the perfect answer to integrators that develop products and applications for machine to machine market. That's why MO200 already includes TCP/IPstack, FTP, TCP & UDP socket services : enhanced AT commands and drivers. In today's competitive world, manufacturers can rely on SAGEM's technology and reduce their development efforts ! Thanks to its technology MO200 allows your device to be directly connected to the Internet for real time data exchanges. MO200 fits all types of applications : POS & metering systems, tracking and security applications, vending machines amongs other wireless products. Thanks to its compact size and flexibility, MO200 solution can also be integrated in any products you imagine. Finally, benefit from the experience and support of a world class manufacturer, whose technology is already approved by all major operators. With full Quad band capabilities 850/900/1800/1900 MHz, MO200 gives access to all GSM networks, and integrates our well known protocol stacks.

TECHNICAL FEATURES

ENVIRONMENT

- 120 Pins Connector
- Size (L x W x H,mm): 54 x 34 x 3 mm
- Operational Temperature range : -30°C / +75 °C
- Power supply DC voltage (min / max / nominal) : 3.45 V / 4.5 V / 3.8 V
- Antenna Connection through RF connector or Antenna pad
- Full Type Approved : R&TTE, GCF, PTCRB, FCC, Rohs Compliancy
- Consumption in Standby mode (can receive a call) : < 2 mA
- Consumption in off mode : < 120 uA
- Autonomous sleep mode management by Hardware or Software
- Enhanced mechanical integration for ruggedised environment

RADIO LINK

- Full Quad Band : EGSM 850, 900, 1800, 1900
- Output Power : Class 4 (2W) for 850 / 900 Mhz ; Class 1 (1W) for 1800 / 1900 Mhz
- GPRS Multislot Class : class 10 (3+2 & 4+1)
- GPRS baudrates : DL up to 85,6 kbps, UL up to 42,8 kbps
- PBCCH supported
- Coding Scheme : CS1 to CS 4
- Mobile Station Class B

DATA INTERFACES

- 2 serial Interfaces
- Full Hardware and Software Flow Control
- AT commands set : GSM 07.05; 07.07; 07.10, Proprietary AT commands
- Multiplexing 07.10 serial interface
- Built-in data / fax Modem
- Data over CSD 9,6 kbps
- Data over GPRS, TCP/IP Stacks embedded
- Supports of : TCP, FTP, UDP

AUDIO INTERFACE

- Voice codecs : HR, EFR, FR, AMR
- 2 Differential analog audio interface
- Echo Cancellation & Noise reduction
- 1 Digital audio interface
- Dedicated audio channels (handset, headset, car kit, hands-free)

GSM FEATURES

- Automatic hang up for Data call
- Internal Phonebook
- CLIP / CLIR / COLP / COLR
- Call wait / call hold, Conference call
- Call forwarding, Call Barring
- Supports of : FDN, USSD, Sim Toolkit, AoC

MESSAGING

- PDU and Text mode SMS support
- Voicemail indicator (CPHS)
- MMS support (dedicated AT commands)

LOCALIZATION

- SMS CB
- Cell ID
- Network cells measurements

SECURITY

- Sim lock supported
- Device lock possibility
- Dedicated TAC for Customize purpose

DEVELOPMENT TOOLS

- Extensive Documentations : Getting Started series, HW Specs, Application Note, AT command List
- Evaluation board
- Evaluation software tools (TCP-IP, MMS, 07.10 protocol, ...)
- Audio setting tool
- Upgrade tools
- Microsoft Windows Mobile Compliant
- Microsoft RIL drivers

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SAGEM COMMUNICATION (SAFRAN GROUP) Broadband Communication Business Group Systems & Partnerships Business Unit

Headquarters: Le Ponant de Paris
27, rue Leblanc - 75015 Paris - FRANCE
Tel: +33 1 53 23 18 16 - Fax: +33 1 58 12 42 95

www.sagem.com

