

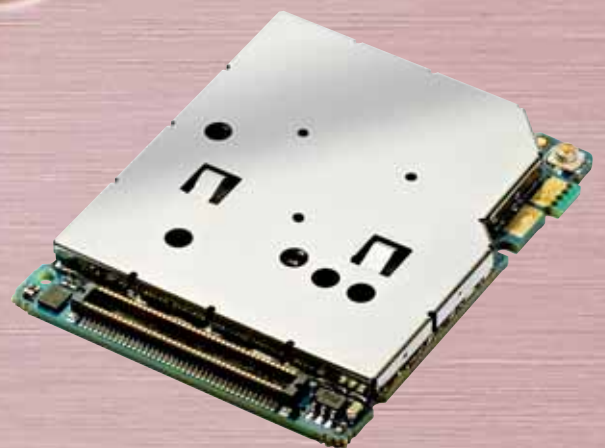
SAGEM MO300

EDGE ENHANCED M2M SOLUTION
FOR HIGH SPEED DATA TRANSFERT

going
wireless



- GSM, GPRS, EDGE Class 10
- Full Quad band 850/900/1800/1900
- Ruggedized Design for Automotive & Industrial applications
- Low power consumption (< 2mA in Idle mode)
- Digital Audio interface
- Temperature sensor and antenna detection
- Complete Internet connectivity and MMS dedicated commands



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EDGE ENHANCED M2M SOLUTION FOR HIGH SPEED DATA TRANSFERT



With its new EDGE family, SAGEM introduces powerful solutions for applications requiring high data rate transfer. With a data rate transfer of more than 200Kbps, 'Enhanced Data rate

for Gsm Evolution' is the most adapted technology for M2M & Multimedia applications.

Thanks to its very small form factor, its complete embedded Internet connectivity, its extended temperature range and much more enhanced features, MO300 is the perfect answer to all your M2M applications! With full quad band capabilities, MO300 also gives you access to all GSM networks and integrates SAGEM well-known protocol stacks. Moreover, MO300 is also available in a BGA form factor (XS300).

Last but not least, SAGEM invites you to benefit from its experience and support as a world class manufacturer, whose technology has already been approved by all major operators.

Also available and compatible with MO300:

MO300E

All MO300 features with Open Platform for developing your applications Inside the module.

MO300G

All MO300 features with embedded GPS functionalities.

MO300EG

All MO300 features with Open Platform and GPS functionalities.

TECHNICAL FEATURES

ENVIRONMENT

- 80 Pins Industrial approved Connector
- Size (L x W x H mm): 43 x 34 x 3,5 mm
- Operational Temperature range: -30°C / +75 °C
- Power supply DC voltage (min / max / nominal): 3.3 V / 4.5 V / 3.8 V
- Antenna Connection & Detection 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: < 50 uA
- Autonomous sleep mode management by Hardware or Software
- Enhanced mechanical integration for ruggedised environment
- Temperature sensor

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
- EDGE/ GPRS Multislot Class: class 10 (3+2 & 4+1)
- EDGE baudrates: DL up to 236.8 kbps, UL up to 118.4 kbps
- GPRS baudrates: DL up to 85,6 kbps, UL up to 42,8 kbps
- EDGE Coding Scheme: MCS1 to MCS9
- GPRS Coding Scheme: CS1 to CS 4
- Mobile Station Class B

DATA INTERFACES

- 1 USB 2 Full speed and 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
- Complete internet connectivity embedded: TCP, FTP, UDP, SMTP, POP3...
- 12 generals I/O
- Possibility to mount sim card holder on back

AUDIO INTERFACE

- Voice codecs: HR, EFR, FR, AMR
- 2 Differential analog audio interfaces
- 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
- Module reset/alarm based on RTC

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
- Sim 3V & 1.8V supported

DEVELOPMENT SUPPORT TOOLS

- Extensive Documentations: HW Specs, Application Note, AT command List, pedagogical documentations
- Evaluation board
- Evaluation software tools (TCP-IP, MMS, 07.10 protocol, ...)
- Audio setting tool
- Upgrade tools
- Microsoft Windows Mobile Compliant
- Microsoft RIL drivers
- Design, Certification & production support

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