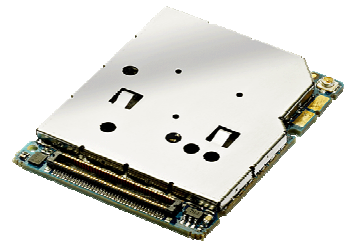


# SAGEM MO 300

## ENHANCED M2M SOLUTION FOR HIGH SPEED DATA TRANSFERT

### FEATURES SUMMARY

**GSM, GPRS EDGE Class 10**  
**RoHS compliant**  
**Quad band 850/900/1800/1900**  
**Ruggedized Design for Automotive & Industrial application**  
**Low power consumption**  
**Digital Audio interface**  
**Temperature sensor and Antenna detection**  
**Ultra high connectivity**  
 - TCP-IP stack, MMS Client, USB 2



### DETAILED SPECIFICATIONS

GENERAL CHARACTERISTICS	
<b>Size</b>	
Dimension (LxWxH, mm)	43 X 34 X 3,2 mm
Weight (g)	10
<b>Connectivity</b>	
Technology	Connector
Number of pins	80 for connectors ( industrial approved)
Antenna connection detection and diagnosis	YES 50 ohms, coaxial cable or contact plate,

RADIO LINK	
<b>GSM</b>	
GSM Band	850, 900, 1800, 1900
Automatic switching between bands	yes
Voice codecs	HR, EFR, FR, AMR
<b>GPRS</b>	
GPRS Class and PBCCH supported	B (suspend/resume supported), PBCCH supported
GPRS Multislot Class	class 10 (3+2 & 4+1)
GPRS baudrates	DL up to 85,6 kbps, UL up to 42,8 kbps
<b>EDGE</b>	
EDGE Class	10
EDGE baudrates	236.8 Kbps max
Modulation and coding scheme	MCS 1-9

POWER MANAGEMENT	
<b>Power supply</b>	
Power supply DC voltage (min / max / nominal)	3.3 V / 4.5 V / 3.8 V
Available power supply outputs	yes
Temperature sensor	yes
<b>Power Management</b>	
Autonomous sleep mode management	yes
Inhibition of sleep mode (hardware and software)	yes
<b>Power Consumption</b>	
Consumption in Communication mode	280 mA average, 2200 mA peak during TX slot
Consumption in Standby mode (can receive a call)	< 2 mA
Consumption in off mode	<50 uA

INTERFACE with EXTERNAL CPU	
<b>Command and data interface</b>	
Multiplexed serial interface	yes (07.10 MUX interface)
2nd serial interface	yes
USB interface	USB 2 Full speed 12 Mbs
<b>V24 flow control</b>	
Flow control Module => DTE	yes, hardware and software
Flow control DTE => Module	yes, hardware and software
<b>Command set</b>	
AT commands set	07.05, 07.07, v25ter
Multiplexing	07.10

AUDIO INTERFACE	
<b>Audio interface</b>	
Analog audio interface	2
Type of audio input/output	Differential
Digital audio interface	yes
<b>Audio settings</b>	
Microphone sensitivity setting, Speaker gain setting	yes
Acoustic echo cancellation	yes
<b>Audio features</b>	
Ringtones management	yes
Dedicated audio channels (handset, headset, car kit, hands-free)	yes



**GSM STANDARD FEATURES & CALL MANAGEMENT**

<b>Call management</b>	
Automatic answer	yes (data calls only)
Internal Phonebook	yes
Call history (dialed, received and missed)	no
CLIP / CLIR / COLP / COLR	yes
Call wait / call hold	yes
Conference call	yes
Call forwarding	yes
Call barring	yes
Forbidden list	no
<b>Supplementary services</b>	
FDN	yes
USSD	yes, Phase 2+
Sim toolkit	yes, Class 3 Release 99
AoC	yes

**MESSAGING**

<b>Messaging</b>	
SMS	yes (text mode and PDU mode)
Concatenated SMS	yes, up to 16
EMS	no
MMS	yes (dedicated AT commands)

**DATA**

<b>Data / Fax</b>	
Built-in data / fax Modem	yes
Data over CSD 9.6 kbps	yes
Data over GPRS	yes
<b>Bluetooth</b>	
Bluetooth interface design	yes, for audio application
Bluetooth ready AT commands	yes (DAI commands)
<b>Built-in communication protocols</b>	
IP	yes
TCP / FDP / UDP Sockets	yes
SMTP / Pop 3 Email..	yes

**LOCALIZATION**

<b>Localization features</b>	
SMS CB	yes
Cell ID	yes
Network cells measurements	yes
GPS On board integrated	Optional ( depends on model)
GPS ready AT command set	yes (NMEA commands)



**STAND ALONE APPLICATION**

<b>Stand alone application</b>	
Flash file system	Yes Depends on Model
Embedded customers application	Optional ( depends on model)
Available GPIO	Yes
Firmware upgrade Over The Air	Optional ( depends on model)

**SECURITY**

<b>Security</b>	
Sim lock	yes (under certain condition)
USIM Support	yes
SIM 3V and 1.8 V	yes
Device lock	yes

**DEVELOPMENT TOOLS**

<b>Extensive documentation</b>	
Dummy	yes
Hardware specification	yes
Application Note	yes
AT commands list	yes
<b>Comprehensive suite of developer tools</b>	
Evaluation board	yes
Evaluation software tools (TCP-IP, MMS, 07.10 protocol, ...)	yes
Audio setting tool	yes
Upgrade tools	yes
<b>Smart Phone / PDA</b>	
Microsoft Windows Mobile Compliant	yes
Microsoft RIL drivers	yes
<b>Modem, PC cards</b>	
PC tools for modem management	yes (licensed by third parties)



Microsoft Windows Mobile  
Pocket PC | Smartphone



