

SAGEM XS 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

Antenna detection

Ultra high connectivity

- TCP-IP stack, MMS Client, USB 2

DETAILED SPECIFICATIONS

GENERAL CHARACTERISTICS	
Size	
Dimension (LxWxH, mm)	38 X 34 X 3.2 mm
Weight (g)	10
Connectivity	
Technology	BGA

RADIO LINK	
GSM	
GSM Band	850, 900, 1800, 1900
Automatic switching between bands	yes
Voice codecs	HR, EFR, FR, AMR
GPRS	
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
EDGE	
EDGE Class	10
EDGE baudrates	236.8 Kbps max
Modulation and coding scheme	MCS 1-9

POWER MANAGEMENT	
Power supply	
Power supply DC voltage (min / max / nominal)	3.3 V / 4.5 V / 3.8 V
Available power supply outputs	yes, 1.8V & 2.8 V
Power Management	
Autonomous sleep mode management	yes
Inhibition of sleep mode (hardware and software)	yes
Power Consumption	
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	
Command and data interface	
Multiplexed serial interface	yes (07.10 MUX interface)
2nd serial interface	yes
USB interface	USB 2 Full speed 12 Mbs
V24 flow control	
Flow control Module => DTE	yes, hardware and software
Flow control DTE => Module	yes, hardware and software
Command set	
AT commands set	07.05, 07.07, v25ter
Multiplexing	07.10

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



GSM STANDARD FEATURES & CALL MANAGEMENT	
Call management	
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
Supplementary services	
FDN	yes
USSD	yes, Phase 2+
Sim toolkit	yes, Class 3 Release 99
AoC	yes
MESSAGING	
Messaging	
SMS	yes (text mode and PDU mode)
Concatenated SMS	yes, up to 16
EMS	no
MMS	yes dedicated AT commands
DATA	
Data / Fax	
Built-in data / fax Modem	yes
Data over CSD 9.6 kbps	yes
Data over GPRS	yes
Bluetooth	
Bluetooth interface design	yes, for audio application
Bluetooth ready AT commands	yes (DAI commands)
Built-in communication protocols	
IP	yes
TCP / FDP / UDP Sockets	yes
SMTP / Pop 3 Email	yes
LOCALIZATION	
Localization features	
SMS CB	yes
Cell ID	yes
Network cells measurements	yes
STAND ALONE APPLICATION	
Stand alone application	
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	
Security	
Sim lock	yes (under certain condition)
USIM Support	yes
SIM 3V and 1.8 V	yes
Device lock	yes
DEVELOPMENT TOOLS	
Extensive documentation	
Dummy	yes
Hardware specification	yes
Application Note	yes
AT commands list	yes
Comprehensive suite of developer tools	
Evaluation board	yes
Evaluation software tools (TCP-IP, MMS, 07.10 protocol, ...)	yes
Audio setting tool	yes
Upgrade tools	yes
Smart Phone / PDA	
Microsoft Windows Mobile Compliant	yes
Microsoft RIL drivers	yes
Modem, PC cards	
PC tools for modem management	yes (licensed by third parties)

