

SAGEMCOM

HiLo^{NC} 3G

**CONNECTORLESS
HSDPA M2M MODULES**

Driving Tomorrow's Global Wireless Technology



SMT Mount LGA module

HSDPA 3.6 Mbps and EDGE/GPRS Class 12

Double bands for WCDMA: 900 / 2100 Mhz.

Full Quad band Support: for GSM/GPRS/EDGE

850/900/1800/1900 MHz

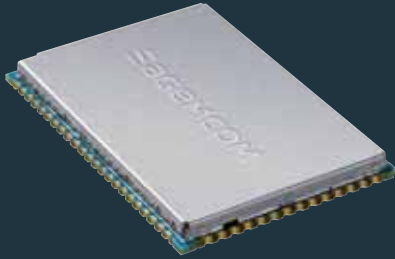
Extremely small Form Factor (30 mm x 45 mm x 3 mm)

Extended operational temperature range (from -40°C up to +85°C)

Very low power consumption (< 1,7 mA in Idle mode)

Ruggedized design for automotive & industrial applications

Extended sensitivity level



Sagemcom introduces its new HSDPA solution for all your M2M applications:

- Scalability from 2G to 3G: HiLo^{NC} 3G module offers an easy path to future upgrades based on HiLo 2G solutions. This backward and forward compatibility ensure a reliable, high quality and cost efficient solution that preserves your technology investment
- Lowest power consumption: HiLo^{NC} 3G increases the autonomy of your battery-powered applications (POS, Track&trace, security phones...)
- Most extended t° range and best in class sensitivity, HiLo^{NC} 3G meets your specific automotive requirements.

Moreover, by choosing Sagemcom, you decide to choose:

- A world class manufacturer who controls its own production capacity
- A technology validated and approved worldwide
- A top of the range technical support
- The highest standards of quality

TECHNICAL FEATURES

ENVIRONMENT

- SMT mount type module : LGA
- Size (L x W x H mm): 30 x 45 x 5.6
- Weight: < 4,5 g.
- Operational Temperature range: -40°C / +85 °C
- Power supply DC voltage (min / max / nominal): 3.0 V / 4.4V / 3.7 V
- Full Type Approved: R&TTE, GCF, PTCRB, FCC, Rohs Compliancy
- Consumption in Standby mode (can receive a call): < 1.7 mA
- Consumption in off mode: < 30 µA
- Enhanced mechanical integration for ruggedized environment

RADIO LINK

- HSDPA 3G Double Band support (900 Mhz / 2100 Mhz).
- Full Quad Band GSM/GPRS/EDGE: EGSM 850, 900,1800, 1900 Mhz.
- GPRS Multislot Class: class 12 : 86 Kbps for DL & UL Coding schemes CS 1-4
- EDGE Multislot Class: class 12 : 236.8 Kbps for DL & UL Coding schemes MCS 1-9
- HSDPA Supports Cat:5/6 385 Kbps for UL, 3.6 Mbit for DL

DATA INTERFACES

- 1 complete 8 lines serial Interface
- 1 USB full speed interface
- Full Hardware and Software Flow Control
- AT commands set: GSM 07.05; 07.07; Proprietary AT commands
- Data over CSD
- Dedicated multiple GPIO's (digital)

AUDIO INTERFACE

- Voice codecs: HR, EFR, FR, AMR
- Analog audio interface
- Digital PCM audio interface
- Echo Cancellation & Noise reduction

GSM FEATURES

- Auto answering for Data call
- CLIP / CLIR / COLP / COLR
- Call wait / call hold, Conference call
- Call forwarding, Call Barring
- Supports of: FDN, USSD, Sim Toolkit, AoC
- PDU and Text mode SMS support
- Module reset/alarm based on RTC

LOCALIZATION

- SMS CB, Cell ID
- Network cells measurements

SECURITY

- Sim lock supported
- Device lock possibility
- Sim 3V & 1.8 V supported

DEVELOPMENT AND SUPPORT TOOLS

- Extensive Documentations: HW Specs, Application Note, AT command list, pedagogical documentations
- Development board
- Evaluation software tools (HiLo 3G Starter tool...)
- Audio settings tool
- Upgrade tools
- Design, Certification & production support

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