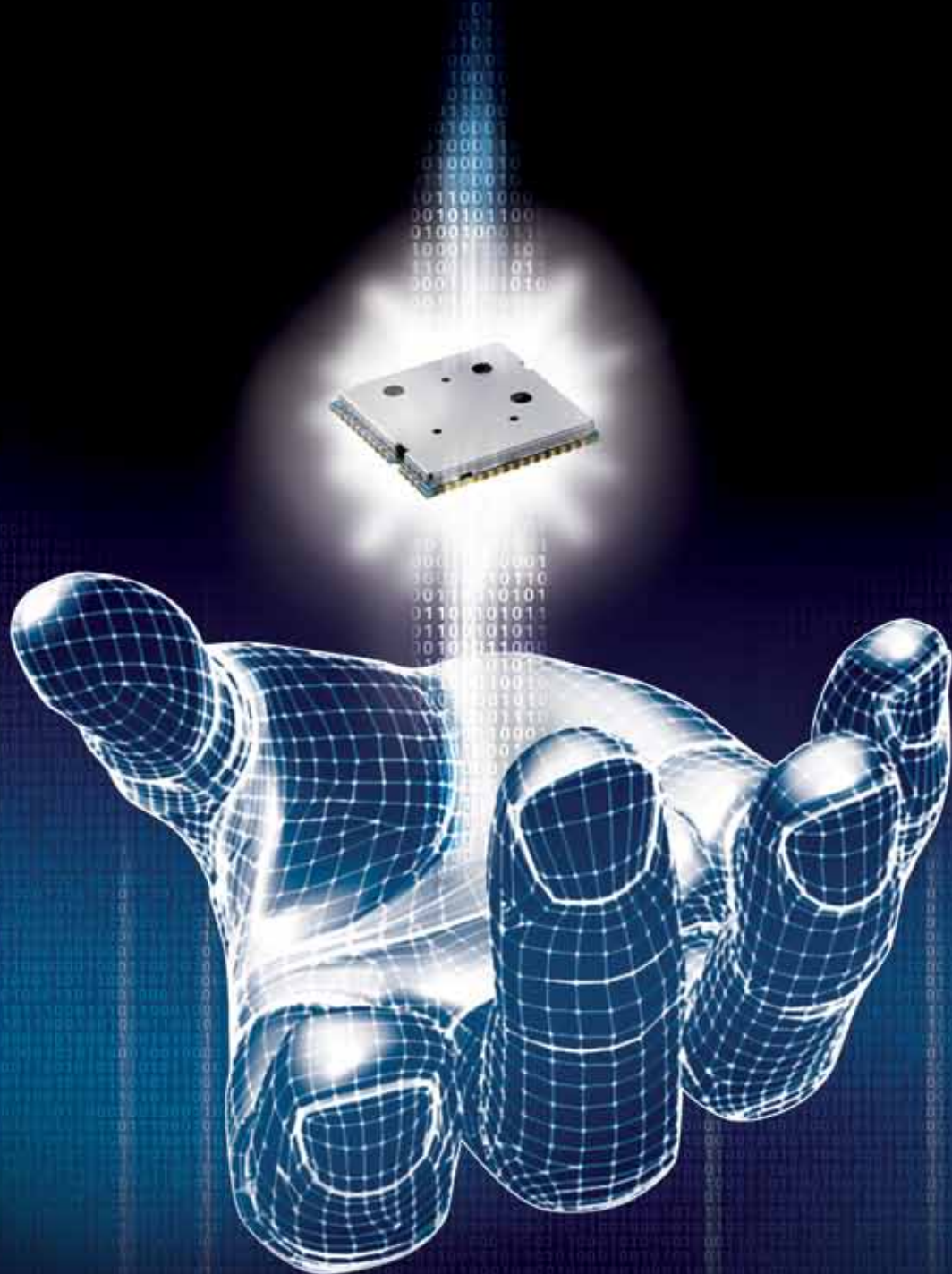


# HiLo<sup>NC</sup> V2

## GPRS Module - LCC

**OFFERING RELIABLE TECHNOLOGY TO  
HIGHLY DEMANDING M2M APPLICATIONS**



*Freedom of speech for smart machines*

**SAGEMCOM**

## PRODUCT OVERVIEW



### Sagemcom's GPRS solution for highly demanding M2M applications:

- Smallest GPRS module available on the market, HiLo<sup>NC</sup> V2 perfectly suits all your applications for which size matters! (Track&trace, POS...).
- Thanks to its extremely low power consumption, HiLo<sup>NC</sup> V2 increases the autonomy of your battery powered applications ( security, alarms...).
- With its extended temperature range, HiLo<sup>NC</sup> V2 understands your specific automotive requirements.
- Last but not least, thanks to its very competitive positioning, HiLo<sup>NC</sup> V2 creates new possibilities for all your cost-driven applications (Metering, automotive...).
- Fully designed, qualified and manufactured to comply with automotive's requirements (ISO TS 16949, PPAP, FMEA...), HiLo<sup>NC</sup> V2 is the perfect choice for high quality first-mount automotive products.

### Moreover, by choosing Sagemcom, you decide to select:

- A world class manufacturer which manages its own production facilities
- A technology validated and approved worldwide
- A top of the range technical support
- The highest standards of quality

- Automotive grade SMT module
- Very low power consumption
- Extended sensitivity level
- Extremely small and light
- Ruggedized design for automotive
- Complete embedded Internet connectivity
- GSM, GPRS Class 10
- Full Quad band Support: 850/900/1800/1900 MHz
- Dedicated high value features including eCall\*

## TECHNICAL FEATURES

### ENVIRONMENT

- SMT (LCC) type
- Size (L x W x H mm): 24 x 24 x 2.5
- Weight: < 3 g
- Full Type Approved: R&TTE, GCF, PTCRB, FCC, Rohs Compliancy
- Operational Temperature range: -40°C / +85 °C
- Power supply DC voltage (min / max / nominal): 3.2 V / 4.5 V / 3.7 V
- Consumption in Standby mode (can receive a call): < 1.25 mA
- Enhanced mechanical resistance for ruggedized environment
- Diagnostic temperature support
- Easy scan features
- Firmware upgrade Over The Air (FOTA option)
- Jamming detection
- RF burst indicator
- Antenna Connection & Detection

### 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
- GPRS Coding Scheme: CS1 to CS 4
- Mobile Station Class B

### DATA INTERFACES

- 2 serial Interfaces (incl. one for internal traces)
- Full Hardware and Software Flow Control
- AT commands set: GSM 07.05; 07.07; 07.10, Proprietary AT commands
- Multiplexing 07.10 serial interface
- Data over CSD 9,6 kbps
- Complete internet connectivity embedded: TCP, FTP, UDP, SMTP, POP3...
- 3 generals I/O & 1 ADC
- Reset input

### AUDIO INTERFACE

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

### 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
- PDU and Text mode SMS support
- MMS support (dedicated AT commands)
- Module reset/alarm based on RTC
- \*eCall support (depends on model)

### LOCALIZATION

- SMS CB, Cell ID
- Network cells measurements

### SECURITY

- Sim lock supported
- Device lock possibility
- Dedicated TAC for Customization purpose
- Sim 3V & 1.8 V supported

### DEVELOPMENT AND SUPPORT TOOLS

- Extensive Documentations: HW Specs, Application Note, AT command list, pedagogical documentations
- Development board
- Upgrade tools
- Design, Certification & production support

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