

Features

GSM	GSM 850/900/1800/1900 MHz ^{1, 2} GSM 900 /1800 MHz ³ 3GPP Release 99
GPRS	GPRS Class 10, CS1-CS4 - up to 85.6 kb/s PBCCH support
CSD	GSM max 9.6 kb/s
AT Commands	3GPP 27.005, 3GPP 27.007 u-blox AT command extension 3GPP 27.010 MUX protocol
SMS	MT/MO Text/PDU mode
Firmware upgrade	Via UART
SARA-G340/G350 only:	
Voice	HR / FR / EFR / AMR Echo cancellation Noise reduction
Protocols	Embedded TCP/IP, UDP/IP, HTTP/FTP
Network	Jamming detection
GNSS Interfaces	Direct access to u-blox GNSS via module AssistNow software for faster acquisition CellLocate & Hybrid Positioning
Special features	inBand modem eCall and ERA-GLONASS support

¹ SARA-G340/G350

² SARA-G310

³ SARA-G300

Electrical data

Power supply	3.00 to 4.50 V (extended)
Power consumption	Power Off: < 40 μ A Idle mode ⁴ : < 0.9 mA Idle mode ⁵ : < 5.0 mA Connected: < 250 mA

⁴ SARA-G300 and SARA-G310: requires external 32 kHz signal

⁵ SARA-G300 and SARA-G310: without external 32 kHz signal

Interfaces

Common to all modules:	
Antenna	50 Ω SMT pad
Serial Port	1 UART for data and AT Commands 1 UART for tracing and firmware update
SIM	1.8V and 3V
SARA-G340/G350 only:	
GPIO	4, controllable over AT commands
GNSS serial	1 DDC (I2C)
Audio	1 analog 1 digital (I2S/PCM)

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Package

96 pin LGA: 16.0 x 26.0 x 3.0 mm, < 5 g

Environmental data, quality & reliability

Operating temperature -40 to +85°C (extended range)

RoHS compliant (lead-free)

Qualification according to ISO 16750

Manufactured in ISO/TS 16949 certified production sites

ATEX / IECEx certification (SARA-G350 ATEX)

Certifications and approvals

SARA modules offer a comprehensive set of regulatory certifications and approvals, including R&TTE, GCF, PTCRB, FCC, IC, NCC, ICASA, and Anatel. See the u-blox website for latest approvals.

Support products

EVK-G35	Evaluation Kit for SARA-G340/G350
EVK-G31	Evaluation Kit for SARA-G300/G310
RIL software	Android 2.3 and 4.1 Embedded Windows 6.x 7.x Windows Mobile 6.5

Ordering information

SARA-G300-xxS ⁶	Cost optimized dual-band (900/1800 MHz) GSM/GPRS data module
SARA-G310-xxS ⁶	Cost optimized quad-band GSM/GPRS data module
SARA-G340-xxS ⁶	Dual-band GSM/GPRS module, extended feature set
SARA-G350-xxS ⁶	Quad-band GSM/GPRS module, extended feature set
SARA-G350-xxX ⁶	Quad-band GSM/GPRS module, ATEX/IECEx certified

⁶ xx refers to firmware version.

Contact us

For contact information, see www.u-blox.com/contact-us.