



Features

GSM	GSM 850/900/1800/1900 MHz ¹ GSM 900 /1800 MHz ² 3GPP Release 99
GPRS	GPRS Class 10, CS1-CS4 - up to 85.6 kbit/s PBCCH support
CSD	GSM max 9.6 kbit/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, SSL and TLS 1.2 support
Network	Jamming detection
GNSS Interfaces	Direct access to u-blox GNSS via module AssistNow software for faster acquisition CellLocate® & Hybrid Positioning
Special features	In-band modem Bearer Independent Protocol (BIP) IPv6 support over PPP eCall and ERA-GLONASS support

1 = SARA-G310 and SARA-G350
2 = SARA-G300 and SARA-G340

Electrical data

Power supply	3.00 V to 4.50 V (extended)	
Power consumption	Power Off:	< 40 μ A
	Idle mode ³ :	< 0.9 mA
	Idle mode ⁴ :	< 5.0 mA
	Connected:	< 250 mA

3 = SARA-G300 and SARA-G310: requires external 32 kHz signal
4 = 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 AT commands, tracing, and FW update
SIM	1.8 V and 3.0 V
SARA-G340/G350 only:	
GPIO	4, controllable over AT commands
GNSS serial	1 DDC (I ² C)
Audio	1 analog 1 digital (I ² S/PCM)

Further information

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

For more product details and ordering information, see the [product data sheet](#).

Package

96 pin LGA: 16.0 x 26.0 x 2.4* mm, < 3 g

* Module height is 2.4 mm from version 02 onwards (3 mm in version 01)

Environmental data, quality & reliability

Operating temperature -40 °C 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 and SARA-G340 ATEX)

Certifications and approvals

SARA-G3 modules offer a comprehensive set of regulatory certifications and approvals, including GCF, PTCRB, FCC, ICASA, RED (formerly known as R&TTE), ISED (formerly known as IC), NCC, and Anatel. Contact your closest u-blox representative for latest approvals.

Support products

EVK-G35	Evaluation Kit for SARA-G340/G350
EVK-G31	Evaluation Kit for SARA-G300/G310
RIL software	Android

Product variants

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

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