

Features

UMTS/HSPA	850/1900 and 900/2100 MHz 800/850/900/1900/2100 MHz 3GPP Release 7 5.76 Mb/s uplink, 7.2 Mb/s downlink
GSM	GSM 850/1900 and 900/1800 MHz Quad-band, 850/1900, 900/1800 MHz
GPRS	Class 12, CS1-CS4, up to 85.6 kb/s
EDGE	Class 12, MCS1-9, up to 236.8 kb/s
CSD	GSM max 9.6 kb/s UMTS max 64 kb/s
SMS	MT/MO PDU / Text mode
Voice	HR/FR/EFR/AMR/AMR-WB Echo cancellation and noise reduction

Software features

Protocols	Dual stack IPv4/IPv6 Embedded TCP/IP, UDP/IP HTTP/FTP/SSL (Secure Socket Layer) SSL TLS 1.2 (for embedded TCP/IP) Ethernet over USB eSIM and Bearer-Independent-Protocol
Network	Jamming detection
GNSS Interfaces	Direct access to u-blox GNSS via SARA AssistNow software for fastest GNSS Time-to-First-Fix CellLocate® & Hybrid Positioning
Emergency calling	E911 (USA) European eCall, eMLPP
Other	ODIS feature for AT&T Protect network from excessive signaling traffic
Firmware upgrade	Via UART and USB

Electrical data

Power supply	3.3 V to 4.4 V
Power consumption	
Power Off	65 µA
Idle (2G)	0.9 mA
Idle (3G)	0.9 mA
GPRS	215 mA (850 MHz, 900 MHz) 140 mA (1800 MHz, 1900 MHz)
HSDPA	580 mA
HSPA	460 mA

Interfaces

GPIO	9 GPIO, controllable via AT commands
(U)SIM	Supports 1.8 V and 3 V, SIM toolkit
Serial	1 UART, 1 USB 2.0 (high-speed, 480 Mb/s), 1 DDC (I ² C) for GNSS and other I ² C slaves
Audio	1 digital

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Package

96 pin LGA: 16.0 x 26.0 x 3.0 mm, < 3 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

Certifications and approvals

SARA-U201:	PTCRB, GCF, FCC, IC, R&TTE, RCM, Anatel, AT&T (all planned)
SARA-U260, U280:	PTCRB, GCF, FCC, IC, AT&T
SARA-U270:	CCC, GCF, PTCRB, R&TTE, NCC (Taiwan), RCM (Australia), KCC (Korea), ATEX

Support products

EVK-U26 / EVK-U27	Evaluation Kits for SARA-U2 series
RIL software for	Android Embedded Windows 6.x, 7.x Windows Mobile 6.5
USB driver	Embedded Windows 6.x, 7.x Windows XP, Vista, 7, 8, 10 Windows Mobile 6.5

Product variants

SARA-U201	HSPA/GSM for global coverage
SARA-U260	HSPA/GSM modules for America
SARA-U270	HSPA/GSM modules for Europe and Asia
SARA-U270 ATEX	HSPA/GSM modules for Europe; ATEX
SARA-U280	HSPA modules for America

Further information

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

For more product details and ordering information, see the product data sheet.