

Features

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|-----------|---|
| 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

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|-------------------|---|
| 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 | Protect network from excessive signaling traffic |
| Firmware upgrade | Via UART and USB |

Electrical data

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|-------------------|--|
| 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

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|--------|--|
| 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

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|-------------------|--|
| 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 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.