

Features

UMTS/HSPA	800/850/900/1700/1900/2100 MHz (Bands VI, V, VIII, IV, II, I) 3GPP Release 7 5.76 Mb/s uplink, 21.1 Mb/s downlink or 5.76 Mb/s uplink, 7.2 Mb/s downlink
GSM	GSM 850 / 900 / 1800 / 1900 MHz 3GPP Release 7, PBCCH support
GPRS	Class 12, CS1-CS4 - up to 86.5 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

Software features

Protocols	Embedded TCP/IP, UDP/IP HTTP/FTP/SSL (Secure Socket Layer)
Network	Jamming detection
GNSS Interfaces	Direct access to u-blox GNSS via LISA AssistNow software for fastest GNSS Time-to-First-Fix CellLocate & Hybrid Positioning
Firmware upgrade	Via UART and USB

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	

Electrical data

Power supply	3.3 V to 4.4 V
Power consumption	
Power Off	55 µA
Idle (2G, DRX5)	1.3 mA
Idle (3G, DRX7)	1.7 mA
GSM Voice	175 mA (Bands II & III)
UMTS Voice	385 mA (Band V)
GPRS Data	175 mA (1 Tx slot, Bands II & III) 400 mA (4 Tx slots, Bands II & III)
HSPA	500 - 800 mA (depends on frequency band)

Interfaces

GPIO	Up to 14 GPIOs, configurable
(U)SIM	Supports 1.8 V and 3 V, SIM toolkit
Serial	1 UART, 1 SPI, 1 USB 2.0 (high-speed, 480 Mb/s)
Audio	2 digital

Certifications and approvals

GCF, R&TTE, PTCRB, FCC, IC, Giteki (Japan), A-tic (Australia), CCC (China), NCC (Taiwan), KCC (Korea), IDA (Singapore), ANATEL (Brazil), ICASA (S. Africa).

AT&T, DoCoMo, Softbank, SKT (S.Korea), Telstra (Australia), Vodafone, BellMobility, Telus, Rogers (Canada).

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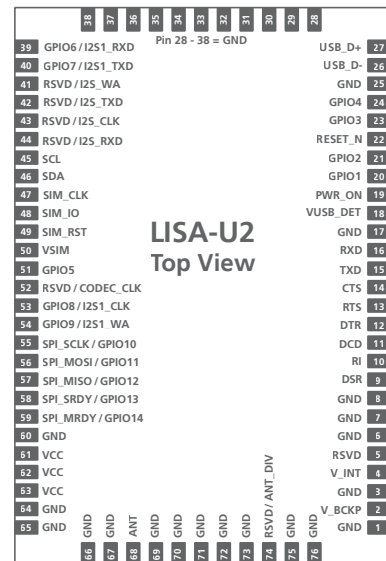
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Package

76 pin LCC (Leadless Chip Carrier): 22.4 x 33.2 x 2.6 mm, < 7 g

Pinout



Support products

EVK-U20 / EVK-U23	Evaluation Kits for LISA-U2 series
RIL software	Android 2.3 & 4.0, Embedded Windows 6.x 7.x Windows Mobile 6.5
USB driver	Embedded Windows 6.x 7.x, Windows XP, Vista, 7, Windows Mobile 6.5

Ordering information

LISA-U200-xxS ³	UMTS/HSPA, quad-band GPRS/EDGE 800/850/900/1700/1900/2100 MHz
LISA-U230-xxS ³	UMTS/HSPA+, quad-band GPRS/EDGE 800/850/900/1700/1900/2100 MHz
LISA-U260-xxS ³	UMTS/HSPA, quad-band GPRS/EDGE, 850/1900 MHz
LISA-U270-xxS ³	UMTS/HSPA, quad-band GPRS/EDGE, 900/2100 MHz
LISA-U200-82S	FOTA, UMTS/HSPA, quad-band GPRS/EDGE, 800/850/900/1700/1900/2100 MHz

³ xx refers to firmware version.

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