LISA-C200

CDMA 1xRTT module

Standard | **Professional** | Automotive

Sprint, Verizon and Aeris certified

- Small LISA SMT form factor for easy manufacturing
- Easy migration between u-blox 2G, 3G and 4G modules
- Supports CellLocate® and GNSS / A-GNSS integration
- Deliver critical firmware updates via u-blox uFOTA engine
- Extended temperature range of -40 to +85° C

LISA-C200
22.4 x 33.2 x 2.7 mm

Product description

The LISA-C200 module provides CDMA2000 1xRTT data and voice communication in a compact SMT form factor. These are fully qualified and certified modules, featuring low power consumption and a rich set of Internet protocols.

LISA-C200 modules are ideally suited to M2M applications such as fleet management, Automatic Meter Reading (AMR), people and asset tracking, surveillance and security and Point of Sales (PoS) terminals.

The LISA-C200 is form factor compatible with the LISA-U2, TOBY, SARA and LEON module families, enabling straightforward development of products supporting either CDMA,

UMTS/HSPA, LTE, or GSM/GPRS wireless technology with the same application board. This allows customers to take maximum advantage of their hardware and software investments.

The dual-band LISA-C200 modules are certified by Sprint, Verizon and Aeris. It is qualified according to ISO 16750 – Environmental conditions and electrical testing for electrical and electronic equipment for road vehicles.

Product selector

Model	Technology	Bands	Interfaces					Audio		Functions													Grade		
	CDMA 1xRTT [kb/s] (forward/reverse)	CDMA [MHz]	UART	SPI	USB	GPIO	DDC for u-blox GNSS	Analog Audio	Digital Audio	Network indication	Antenna Supervisor	Jamming Detection	Embedded TCP/IP, UDP/IP	Embedded FTP, HTTP	Embedded SSL	AssistNow software	CellLocate ®	FOTA	FW update via serial interface	eCall / ERA GLONASS	Rx diversity	GNSS via Modem	Standard	Professional	Automotive
LISA-C200	153	800/1900	1		1	5	•	1	1	•	•		•	•		•	•	A	•			•		■	

A = available from versions x5S onwards;

u-blox

Features

CDMA2000 1xRTT	800/1900 MHz (Sprint/Verizon) 153 kb/s forward/reverse
Voice	Analog / digital
SMS	Text mode
Carrier provisioning	Over the Air (Sprint) OTASP/OTAPA (Verizon)
GNSS Interfaces	Direct access to u-blox GNSS via LISA-C200 AssistNow software for faster acquisition CellLocate

Software features

Protocols	Embedded UDP/IP, TCP/IP, HTTP and FTP
Network	OTA provisioning, software maintenance and device management (OTASP, OTAPA), OMA-DM / FOTA
AT commands	Enhanced AT command set IS-707.3 3GPP 27.005, 3GPP 27.007 and ITU-T V.25 u-blox proprietary AT commands 3GPP 27.010 MUX protocol
Firmware upgrade	Via UART and USB FOTA (from version x5S)

Interfaces

Antenna	50 Ω Antenna supervisor
Serial	1 UART (5-wire) 1 USB 2.0 (full-speed)
Audio	1 audio digital (PCM) interface 1 audio analog interface
GPIO	5

Electrical data

Power supply	3.4 V to 4.2 V
Power consumption	

Power Off	< 20 µA
Sleep mode	< 5 mA
Data traffic	< 750 mA

Certifications and approvals

FCC, CCF, ISED (formerly known as IC), Sprint, Verizon, Aeris.

See the u-blox website for latest approvals.

Package

76 pin LCC (Leadless Chip Carrier): 22.4 x 33.2 x 2.7 mm, < 7 g

Pinout
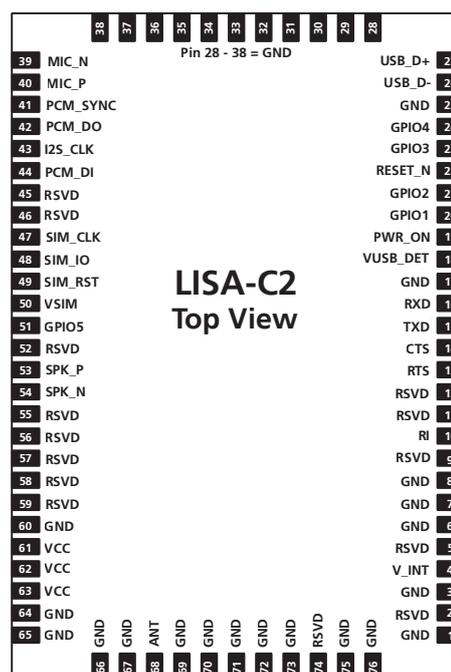
Environmental data, quality & reliability

Operating temperature -30 to +85°C (extended range)

RoHS compliant (lead-free)

Qualification according to ISO 16750

Support products

EVK-C20-0xS	Evaluation Kit for LISA-C200 (Sprint/Aeris)
EVK-C20-2xS	Evaluation Kit for LISA-C200 (Verizon)

Product variants

LISA-C200	CDMA 2000 1xRTT 800/1900 MHz, data and voice • version for Sprint and Aeris • version for Verizon

Further information

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

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