

LISA-C2 series

CDMA 1xRTT modules

Highlights

- Dual-band CDMA2000 1xRTT 800 MHz/1900 MHz
- SMT form factor, extremely small foot-print
- Pin compatible with u-blox LISA W-CDMA and LEON GSM/GPRS data modules
- USB 2.0 and serial interfaces
- Sprint, Verizon, Aeris approvals



LISA-C2 Series:
22.4 x 33.2 x 2.7 mm

Product description

The LISA-C2 series provides dual-band CDMA2000 1xRTT data and voice communication in a compact SMT form factor. They are fully qualified and certified modules, featuring extremely low power consumption and a rich set of Internet protocols.

LISA-C2 modules are ideally suited to M2M and automotive applications such as: Fleet management, Automatic Meter Reading (AMR), people and asset tracking, surveillance and security and Point of Sales (PoS) terminals.

The LISA-C2 form factor is compatible with the LISA W-CDMA and LEON GSM/GPRS module families, enabling straightforward development of products supporting either CDMA, W-CDMA, or GSM/GPRS wireless technology with the same application board. This allows customers to take maximum advantage of their hardware and software investments.

Product selector

| Module | Technology | Bands | Interface | | | Audio | | Functions | | | | | | | | | | | |
|-----------|--|------------|-----------|-----|-----|----------------|------|--------------|---------------|--------------------|--------------------|-------------------|------------------|----------------|---------------|--------------------|----------------------|------|---------------|
| | CDMA 1xRTT [Kb/s] (forward/reverse) | CDMA [MHz] | UART | SPI | USB | DDC for u-blox | GPIO | Analog Audio | Digital Audio | Network indication | Antenna Supervisor | Jamming Detection | Embedded TCP/UDP | FTP, HTTP, SSL | GPS via Modem | AssistNow software | FW update via serial | FOTA | In-band modem |
| LISA-C200 | 153 | 800/1900 | 1 | 1 | 5 | 1 | 1 | • | • | • | • | | | | | | | | |

Features

| | |
|----------------|--|
| CDMA2000 1xRTT | 800/1900 MHz 153 Kbps forward/reverse |
| Voice | PCM audio / Analog Echo cancellation Noise reduction |
| SMS | MT/MO PDU / Text mode |
| Carrier Data | Over-the-Air (OTA) provisioning |

Software features

- Integrated TCP/IP, UDP/IP
- OTA provisioning, software maintenance and device management (OTASP, OTAPA)
- OMA-DM / FOTA
- 27.010 MUX
- Enhanced AT command set IS-707.3, GSM 07.05, GSM 07.07, ITU-T V.25 as applicable

Electrical data

| | |
|-------------------|----------------|
| Power supply | 3.3 V to 4.4 V |
| Power consumption | |
| Sleep mode | < 2 mA |
| Idle mode | < 100 mA |
| Data traffic mode | < 800 mA |

Interfaces

| | |
|--------|--|
| Audio | 1 Audio Digital (PCM) / 1 analog mic/spk |
| Serial | 1 UART (5 wires) 1 USB 2.0 (high-speed, 480 Mb/s) |
| GPIOs | 5 |

Approvals

- FCC, IC, UL, CDG1 and 2, CCF
- CDMA Carriers approvals

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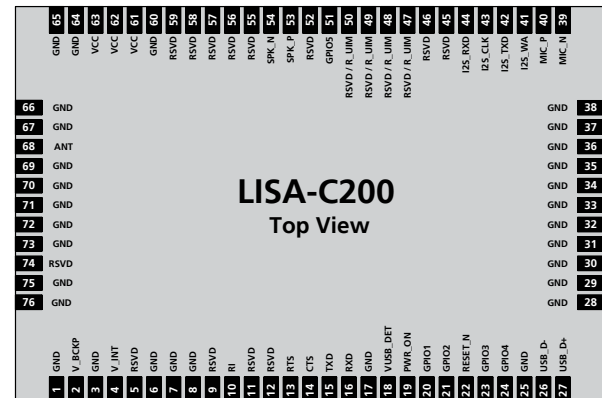
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Package

Dimensions 76 pin LCC (Leadless Chip Carrier), surface mount package: 22.4 x 33.2 x 2.7 mm

Weight: < 7 g

Pinout



Environmental data

Operating temp. -30 to +85°C

RoHS compliant (lead-free)

Support products

EVK-C20 Evaluation Kit for LISA-C200

Ordering information

LISA-C200-xxS¹ CDMA 2000 1xRTT 800/1900 MHz, data and voice

¹ xx refers to firmware version.

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