

Overview

The **LCC40** is a series of LTE Cat 1 bis modules optimized for IoT and M2M applications that require reliable, cost-effective for 4G connectivity.

Based on **Qualcomm's QCX216 LTE** IoT chipset and compliant with 3GPP Release 14 specifications, the LCC40 delivers data rates of up to 10 Mbps downlink and 5 Mbps uplink, offering an ideal balance between performance and efficiency for mid-bandwidth IoT devices.



The **LCC40** uses a compact LGA + LCC form factor, making it easy to integrate into different devices and designs. Its single-antenna Cat 1 bis design helps lower hardware cost and simplify product development, while still providing strong network performance and reliable coverage.

Highlights



LTE FDD Cat 1 bis 3GPP Rel 14 compliant



USB 2.0 High Speed Interface



Single LTE antenna



Low Power Consumption



Built-in IPv4/IPv6, UDP, TCP, SSL, PPP, HTTP(S), MQTT(S), NITZ, FTP



Small Form Factor Design



Power Saving Modes

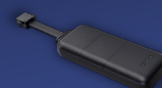
Applications



Asset tracker



Smart meters



Telematics

LCC40 Specifications

Basic Specification

Processor	ARM Cortex M3 processor @ 204MHz clock
RAM	1.25MB
Flash	4MB
OS	FreeRTOS – CMSISv2

Radio Technology

RAT Used	Cat 1bis
3GPP Release	14

Frequency Bands

Cat 1 bis	B1/B3/B5/B8/B40/B41
Wi-Fi Scan	Supported

Software Features

Internet Protocols	TCP/UDP/MQTT(S)/HTTP(S)/FTP(S)/SSL/NTP/PPP/NITZ
DFOTA	YES

Electrical Features

Supply Voltage Range	3.6V - 4.2V (Typical: 3.8V)
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Power Consumption (Typical)

Active Mode	124 mA
Idle Mode	17 µA
Sleep Mode	2 µA

Max. Data Rate

Cat 1bis	DL 10Mbps & UL 5Mbps
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Packaging

Form Factor	LGA + LCC package
Dimensions (mm)	17.7 × 15.8 × 2.3mm
Pin Count	109 pins
Weight(g)	1.5g

Interfaces

UART	x3
USB 2.0	x1
ADC	x2
GPIO	x5
I2C	x2
I2S	x1
SPI	x1
USIM	x2
SWD	x1
PWERKEY	x1
RESET	x1
Main Antenna	x1

Temperature Range

Operating Temperature	-20°C to +85°C
Extended Temperature	-45°C to +90°C

Pre-release version document, some features/specifications are subject to change

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