

Get ready for rapid development. LooUQ's iotQc CTA-LTEM1 modem enables rapid IoT device design, development and deployment due to the CTA-LTEM1's Verizon OD carrier certification. Your device is ready when you are, requiring no additional network certification testing. LooUQ has done the work to enable your project to reach market opportunities as they appear. The CTA-LTEM1 offers everything you need for IoT sense and control applications: small size, low power and easy host connectivity.

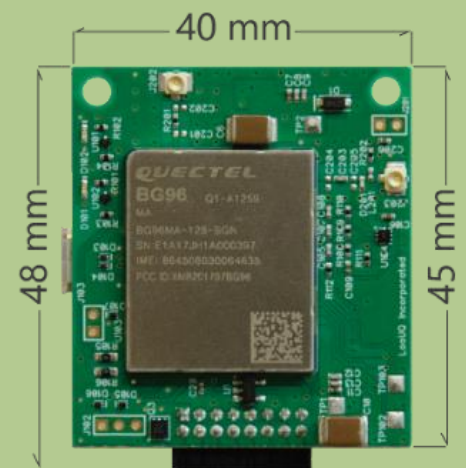
Features

- Pre-certified on the Verizon network
- Integrated GNSS (standalone and assisted)
- Small size, 48mm x 40mm x 8mm
- Low-power, battery centric design
- SPI host interface
- USB for firmware updates and advance diagnostics
- DFOTA, Delta firmware upgrade Over-the-Air upgrade support
- TCP\IP functionality support TCP\UDP\SSL\HTTP\HTTPS\MQTT
- Powered by the Quectel BG96 module
- Cross-industry applicability, anywhere, anytime communications

Benefits

- No additional carrier certification required for your IoT device
- Enables location and tracking applications without additional hardware
- Easily adapts to product constraints, allowing connected product
- Open-sourced driver software supports rich abstraction for TCP\IP based communications.
- Rich and secure remote communications
- Safe IoT with OTA updates and industry standard encrypted communications
- Fully integrated with LooUQ iotQi application enablement platform and Microsoft Cloud IoT offerings.

Part Number: **CTA-LTEM1**





Specifications

Physical

- 45mm x 40mm x 9.15mm board
- 48mm x 40mm overall with host connector.
- Detailed dimension information is available in the LooUQ answer center (answers.LooUQ.com)

Power

- Supply voltage 3.7-volts nominal (3.4v min, 4.3v max)
- Consumption @ LTE Cat M1 (typical)
 - Power Saving Mode: 10uA
 - LTE Connected Mode (average)
 - 124mA @ 0dBm
 - 130mA @ 10dBm
 - 190mA @ 23dBm

Communications

- LTE CAT M1
- 300 Kbps (uplink) 375 Kbps (downlink)
- iotQc Host Interface for integration with LooUQ HA boards
- SPI host communications
- (2) U.FL antenna connections
 - Main: cellular 700MHz, LTE Band 13
 - GNSS: passive or active (3v - 5v)
- UART output of GNSS NMEA sentences

Approvals

- Quectel BG-96 module FCC approved
- CTA-LTEM1 Verizon OD certified

Support

CTA-LTEM1 support is available 7x24 via our online LooUQ Answer Center. Priority support is optional. LooUQ also offers data plans and iotQi platform integrated service plans. Please contact us for more information.

Contact LooUQ's Product Team
517/940-4050

Find Us Online
www.LooUQ.com

More Information
answers.LooUQ.com