



CELLCRACKER DATA SHEET



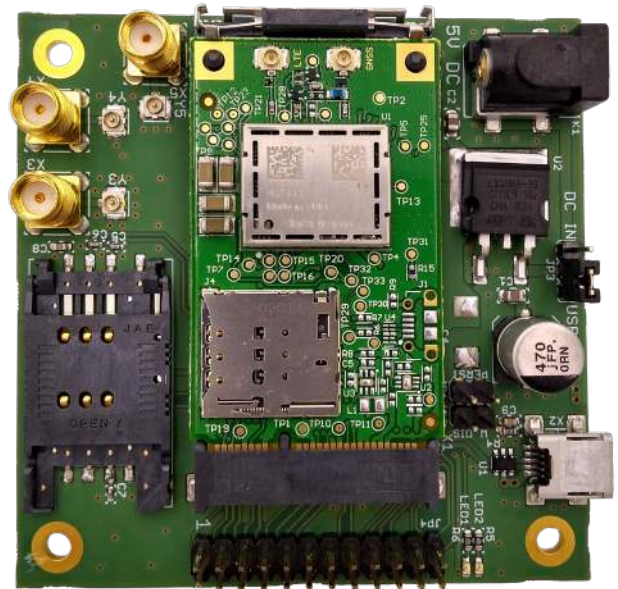
CellCracker mPCIe card LTE modem

CellCracker enables cellular connectivity for industrial, mobile and embedded computers, with minimal development and certification costs. It is a low-cost LTE cellular M1 radio with support circuitry mounted on a mini-PCIe carrier card. Cellular connectivity is accomplished by the integrated HL7800-M radio module from Sierra Wireless, offering best-in-class power performance for global LTE-M1 networks. For increased flexibility, this product is also available as a USB only modem with connection through an on-board USB Micro-B connector.

Delivering up to 300Kbps download speed and 375Kbps upload speed, this module is ideal for lower bandwidth applications such as sensors, real-time fixed or mobile communications, asset tracking and monitoring, industrial equipment, smart city, healthcare and agricultural monitoring devices.

CellCracker Benefits

- Fully pre-certified, no further certification required
- Integrated GNSS receiver enables tracking and location-based services
- Ultra low power mode to extend battery life 5-10x
- Integrated AirVantage® cloud services for device management
- FREE unlimited firmware over-the-air (FOTA) upgrades



CellCracker mPCIe Card mounted on evaluation board.



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- Data speed**
 - Up to 375kbit/s uplink, 300 kbit/s downlink
- Interfaces**
 - USB : Provides access to UART1 of HL7800-M
 - Speed: 9.6Kbps to 921.6Kbps
 - Micro USB connector
 - PCIe connector
 - SIM: On-board SIM (3FF), Off-board SIM
 - GNSS: GPS L1 and GLONASS L1
 - Cellular: LTE Cat M1
- Mechanical**
 - Form Factor: PCI Express Full Mini Card
 - Dimensions: 51mm x 30mm x 4.4mm
 - Weight: 6g
- Antenna**
 - GNSS
 - U.FL connector
 - Provides 3.3V supply for active GNSS antennas
 - Cellular
 - U.FL connector
- Supported Cellular Bands**
 - Category
 - Cat-M1/NB1
 - Frequency Bands
 - B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B14, B17, B18, B19, B20, B25, B26, B27, B28, B66
- Environmental**
 - Operating Temp: -25°C to 70°C
- Power**
 - USB Micro-B Connection
 - Voltage: 4.75V-5.25V,
 - Peak Current - 400mA @ 5V
 - mPCIE Connection
 - Voltage: 3V-3.6V
 - Peak Current - 500mA @ 3.3V
- Approvals**
 - Regulatory: FCC-US, ISED-Canada, CE/RED-EU
 - Industry: PTCRB, GCF
 - Specific Carrier Approval: AT&T, T-Mobile

Contact Us



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