SocketModem® CDMA

Embedded Wireless Modem



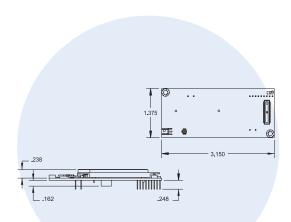
Benefits

- Easy integration
- Quick time-to-market
- · Carrier approved
- Universal socket connectivity

The Multi-Tech SocketModem® CDMA wireless modem is a complete, ready-to-integrate module that offers standards-based multi-band CDMA2000 1xRTT performance. This quick-to-market module allows developers to add wireless communication to products with a minimum of development time and expense. The SocketModem CDMA wireless modem is based on industry-standard open interfaces and utilizes Multi-Tech's universal socket design.

Features

- CDMA2000 1xRTT
- Qualcomm® MSM6050 chipset
- CDMA IS-95A, IS-95B backwards compatible
- Dual-band 800/1900 MHz CDMA
- 800 MHz with R-UIM support
- Packet data up to 153.6K bps forward and reverse
- Circuit-switched data up to 14.4K bps
- Class 2.0 Group 3 Fax
- Short Message Services (SMS)
- MMCX antenna connector
- Serial interface supports DTE speeds to 230K bps
- AT command compatible
- Universal socket connectivity
- CDG 1 and 2 network certified
- Two-year warranty





Highlights

Applications. The SocketModem CDMA wireless modem is targeted at applications that periodically need to send or receive data over a wireless network. It is ideal for:

- Appliances
- · Asset tracking
- ATM terminals
- Automotive
- Data collection
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

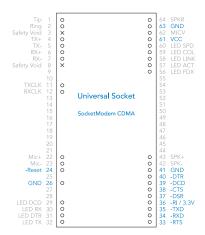
Integration Reduces Space, Power and Cost. The SocketModem CDMA wireless modem integrates the controller, RF transceiver, and antenna interface into one module. This integration requires low power, low real estate and provides an overall reduction in costs.

Reduces Development Time. The SocketModem CDMA wireless modem enhances your product while you focus on developing its core features. It actually provides faster time-to-market because it relieves the burden and expense of obtaining CDG 1 and 2 network and RF approvals.

Management Features. The SocketModem CDMA wireless modem provides advanced management features including phone book management, fixed dialing number, real time clock and alarm management.

SocketModem CDMA Pin-Out. The SocketModem CDMA wireless modem interfaces easily with existing products through a standard serial communication channel. The

serial DTE channel is capable of transfer speeds to 230K bps and can be interfaced directly to a UART or microcontroller. The complete on-board RF transceiver interfaces with an antenna for direct connection to wireless SMS, circuit-switched dial-up, or packet data networks. It also includes an onboard LED to display network status.



Note: Populated pins are highlighted

Universal Socket Connectivity. Multi-Tech's Universal Socket flexible comm-port architecture provides analog dial-up, ISDN, wireless, or Ethernet socket connectivity with interchangeable modules. This allows you to utilize one system design and populate it with your communication module of choice. In addition, you are assured a seamless migration to future technologies.

Developer's Kit. The Developer's Kit allows you to plug in the module and use it for testing, programming and evaluation. The kit includes one development board with RS-232 DB-25 connector, universal power supply, antenna and RS-232 cable.

Comprehensive Service and Support. The Multi-Tech

commitment to service means we provide a two-year product warranty and service that includes free telephone technical support, 24-hour web site and ftp support.

Specifications

Packet Data Features

CDMA2000 1xRTT, up to 153K bps forward & reverse

Circuit Switched Data/Fax Features

IS-95A, IS-95B up to 14.4K bps, Group 3 Fax, Class 2.0

SMS Features

Text & PDU. Point-to-Point, cell broadcast

Connectors

Antenna: MMCX

R-UIM: Standard 3V R-UIM receptacle (-N4 model only)

Power Requirements

5VDC; 400mA typical, 700mA maximum

Physical Description

3.1" L x 1.4" W x 0.5" H; 1.2 oz. (8.0 cm x 3.5 cm x 1.2 cm; 34 g)

Operating Environment

-30° to +70° C

Certifications

EMC: FCC Part 2, 15, 22, 24, EN 55022, EN 55024

Safety: cUL, EN 60950, UL 60950

Network: CDG 1 & 2

Ordering Information

Product Description Region MTSMC-C* CDMA Modem Regional

Ordering Codes

Description -N1 800/1900 MHz CDMA Modem -N2 For Sprint Networks (USA) -N3 For Verizon Networks (USA) 800 MHz CDMA Modem w/R-UIM -N4

* Use ordering codes for specific build options. Check with your local carrier to see which frequency bands are required. Go to www.multitech.com for detailed product model numbers.

Made in Mounds View, MN, U.S.A.

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