

# SocketModem® CDMA

## Embedded Cellular Modem



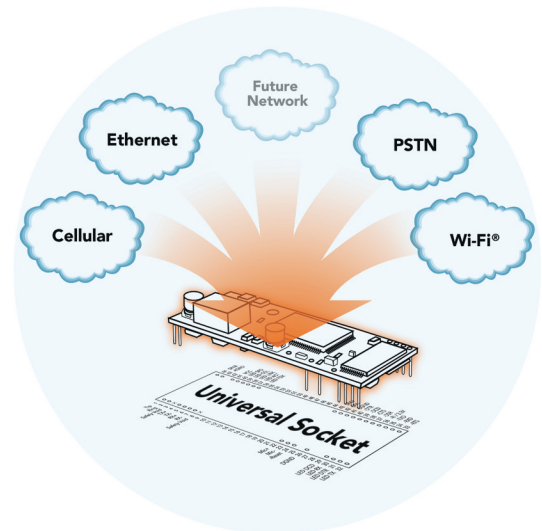
The Multi-Tech SocketModem® CDMA cellular modem is a complete, ready-to-integrate communications device that offers standards-based dual-band CDMA2000 1xRTT performance. This quick-to-market communications device allows developers to add wireless communication to products with a minimum of development time and expense. The SocketModem CDMA cellular 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
- Universal Socket connectivity
- Models with R-UIM support
- Packet data up to 153.6K bps forward and reverse
- Circuit-switched data up to 14.4K bps
- Short Message Services (SMS)
- MMCX antenna connector
- Serial interface supports DTE speeds to 230K bps
- AT command compatible
- CDG 1 and 2 network certified
- Two-year warranty

### Universal Socket Benefits

- Interchangeable communications devices
- Quick-to-market
- Global approvals
- Easy migration to future networks



# Highlights

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

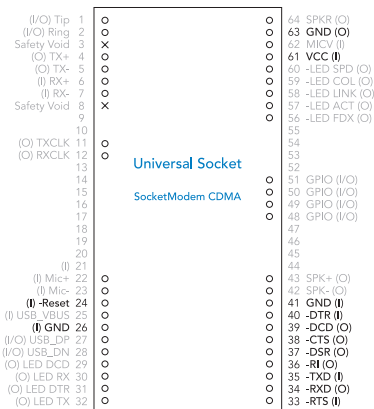
- Appliances
- Asset tracking
- ATM terminals
- Automotive
- Data collection
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

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

**Reduces Development Time.** The SocketModem CDMA cellular 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 cellular 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 cellular 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.



**Universal Socket Connectivity.** Multi-Tech's Universal Socket is a flexible, comm-port architecture that provides cellular, Ethernet, PSTN or Wi-Fi® network access with interchangeable communications devices. This means you can utilize one system design and populate it with your connectivity device of choice accommodating multiple connectivity requirements. In addition, you are assured a seamless migration to future technologies.

**Developer's Kit.** The Developer's Kit allows you to plug in the communications device 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.

# Specifications

**Packet Data Features**  
CDMA2000 1xRTT, up to 153K bps forward & reverse channels

**Circuit Switched Data/Fax Features**  
IS-95A, IS-95B up to 14.4K bps

**SMS Features**  
Text & PDU, Point-to-Point, cell broadcast

**Connectors**  
Antenna: MMCX  
R-UIM: Standard 3V R-UIM receptacle (-N11 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 (FCC certified from -30° to +50° C)

**Certifications**  
EMC: FCC Part 2, 15, 22, 24, EN 55022, EN 55024  
Safety: cUL, EN 60950, UL 60950  
Network: CDG 1 & 2  
RoHS Compliant

# Ordering Information

Product	Description	Region
MTSMC-C*	800/1900 MHz CDMA Modem	Regional
Ordering Codes	Description	
-N1	Generic, Requires Provisioning (A-key = Random)	
-N2	For Sprint Networks (USA)	
-N3	For Verizon Networks (USA)	
-N9	Generic, Requires Provisioning (A-key = 0)	
-N11	800/1900 MHz CDMA Modem w/ R-UIM	
-N12	Bell Mobility (Canada)	
-N15	For Telus Networks (Canada)	
-N16	For Aeris Networks (USA)	

\* Use ordering codes for specific build options. Go to [www.multitech.com](http://www.multitech.com) for detailed product model numbers.

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

Features and specifications are subject to change without notice.

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