

SocketModem® Cell

CDMA Cellular Modem



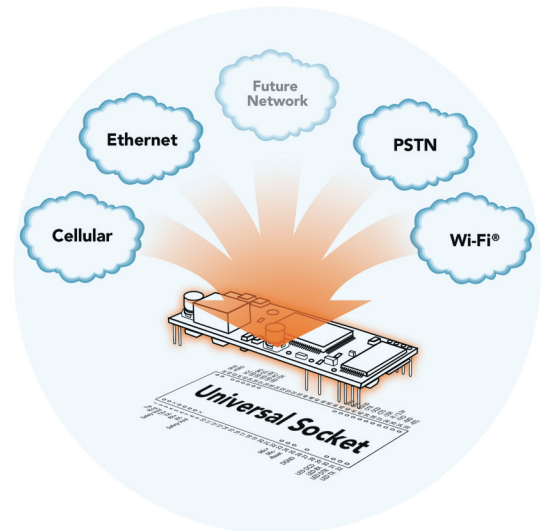
The Multi-Tech SocketModem® Cell cellular modem is a complete, ready-to-integrate communications device that offers standards-based dual-band CDMA2000 1xRTT performance. This quick-to-market communications device allows developers to add wireless communication to products with a minimum of development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

Features

- CDMA2000 1xRTT
- Dual-band 800/1900 MHz CDMA
- Universal Socket connectivity
- CDMA IS-95A, IS-95B backwards compatible
- Packet data up to 153.6K bps forward and reverse
- Circuit-switched data up to 14.4K bps
- Short Message Services (SMS)
- UFL 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
- Carrier approved
- Easy migration to future networks



Highlights

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

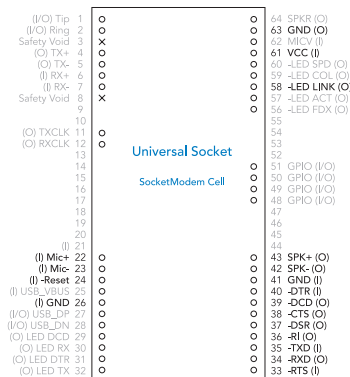
- Appliances
- Asset tracking
- ATM terminals
- Automotive
- Data collection
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

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.

Reduces Development Time. The SocketModem Cell 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.

Integration Reduces Space, Power and Cost. The SocketModem Cell 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.

SocketModem Cell Pin-Out. The SocketModem Cell 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.



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: UFL

Power Requirements

5VDC; Sleep: 10mA (.05W @ 5 VDC); Typical: 150mA (.75W @ 5 VDC); Maximum: 585mA (2.9W @ 5 VDC)

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 15 Class B, 22, 24; IC: RSS 129, 132, 133; EN 55022

Safety: cUL 60950-1, EN 60950-1, UL 60950-1

Network: CDG 1 & 2

RoHS Compliant

Ordering Information

Product	Description	Region
MTSMC-C1*	CDMA 1xRTT Modem	Regional
MTSMC-C1-V*	CDMA 1xRTT Modem with Voice	Regional
Ordering Codes	Description	
-N2	For Sprint Networks (USA)	
-N3	For Verizon Networks (USA)	
-N16	For Aeris Networks (USA)	

* Use ordering codes for specific build options. Go to 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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