

MultiModem® CDMA

Cellular Modems



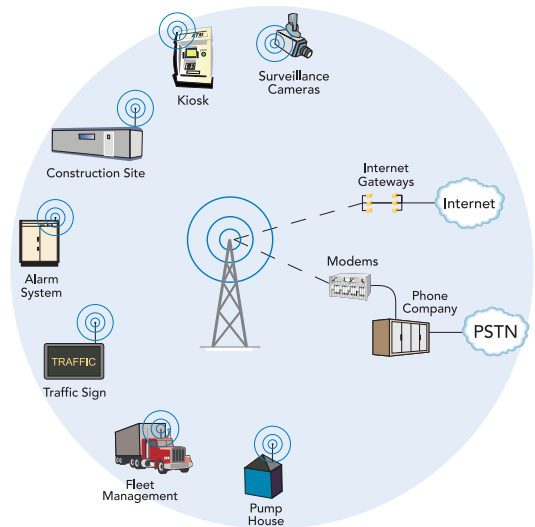
Benefits

- Rugged industrial chassis design
- Desktop or panel mounting
- Carrier approved
- RS-232, USB and Ethernet interfaces

The MultiModem® CDMA cellular modem offers standards-based dual-band CDMA2000 1xRTT performance. This ready-to-deploy, standalone modem provides wireless data communication and integrates seamlessly with virtually any application. It is available with a broad range of interface options including RS-232, USB and Ethernet to cover all of your application needs. The MultiModem CDMA cellular modem is based on industry-standard open interfaces and can be desktop or panel mounted.

Features

- CDMA2000 1xRTT
- Qualcomm® MSM6050 chipset
- CDMA IS-95A, IS-95B backwards compatible
- Dual-band 800/1900 MHz CDMA
- Packet data up to 153.6K bps forward and reverse
- 14.4K bps circuit switched data
- Short Message Services (SMS)
- RS-232, USB and Ethernet interfaces
- Models available with a complete TCP/IP stack
- SMA antenna connector
- Serial interface supports DTE speeds to 230K bps
- AT command compatible
- Numerous LEDs provide operational status
- Over-the-Air activation
- Desktop or panel mounting
- CDG 1 and 2 network certified
- Carrier approved
- Two-year warranty



Highlights

Applications. With packet data speeds up to 153.6K bps, the MultiModem CDMA cellular modem is targeted at applications which periodically need to send or receive data over a wireless network. It is ideal for:

- Automated machine-to-machine (M2M)
- Public Safety/Emergency Services
- Public Transit
- Remote Industrial, Medical, Environmental, Monitoring
- Remote diagnostics
- Security Systems
- Telemetry/Remote Metering
- Vehicle Tracking/Fleet Management/AVL

Reduces Development Time. The MultiModem CDMA cellular modem can make your existing and next generation device communication-ready without requiring any hardware changes to its design. It actually provides faster time-to-market because it relieves the burden and expense of obtaining CDG 1 and 2 network and RF approvals. This complete, ready-to-deploy cellular modem allows you to enhance your product while you focus on developing its core features.

Packet-switched Data. The MultiModem CDMA cellular modem supports CDMA 2000 1xRTT packet-switched data. This enables mobile Internet functionality by allowing interworking between the existing Internet and the cellular network at speeds up to 153.6K bps (forward and reverse). Any service that is used over the fixed Internet today – File Transfer Protocol (FTP), web browsing, chat, e-mail, telnet is available over the cellular network as well.

Circuit-switched Data. The MultiModem CDMA cellular modem also supports CDMA IS-95A and IS-95B circuit-switched data connections up to 14.4K bps. CSD cellular connections are ideal for applications that require a quick wireless replacement of an existing point-to-point analog dial-up connection. They integrate seamlessly with your current application requiring little infrastructure change.

Short Message Services. The MultiModem CDMA cellular modem offers SMS services such as cell broadcast, Over the Air Activation (OTA), OTASP and OTAPA. The MultiModem CDMA cellular modem is SMS Mobile Originated and SMS Mobile Terminated.

Internet-enabled. Some models of the MultiModem CDMA cellular modem include an embedded TCP/IP protocol stack to bring Internet connectivity to any device without making changes to its hardware design. Using the Internet protocols and the wireless connection to an IP network, the modem sends and receives data over the Internet. It can also serve a single web page in response to a web browser request.

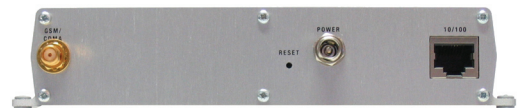
Voice Features. The MultiModem CDMA cellular modem provides telephony and Dual Tone Multi Frequency (DTMF) functionality, as well as, AMPS Voice, QCELP (13K) and echo cancellation.

Compatible Supplementary Services. The MultiModem CDMA cellular modem is compatible with supplementary services such as call forwarding, call barring, multiparty, call waiting and call hold, calling line identification, closed user group and call transfer.

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

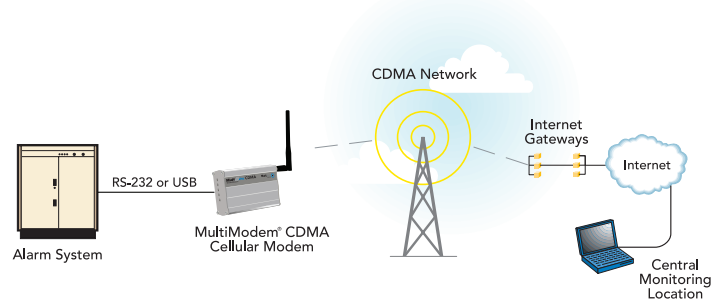
Industrial Chassis. The MultiModem CDMA cellular modem is packaged in a rugged, water resistant, industrial chassis with an SMA antenna connector. It can be desktop or panel mounted and features numerous LEDs providing operational status.

Multiple Interface Options. The MultiModem CDMA cellular modem is designed around a broad range of interface options including RS-232, USB and Ethernet to provide you with seamless connectivity for your application. Each interface option offers unique features and benefits related to the technology it supports.



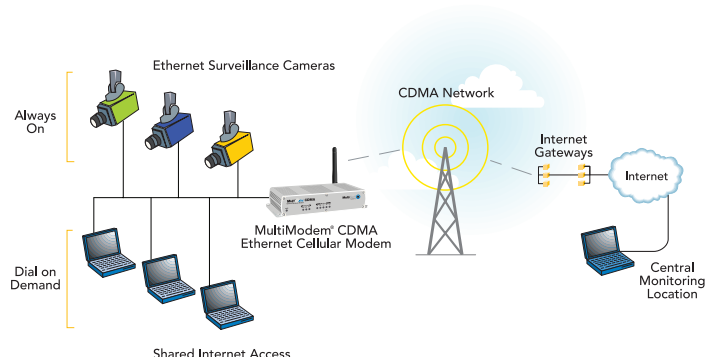
Serial Connectivity. The MultiModem CDMA cellular modem with a serial interface utilizes RS-232 or USB to connect to any serial device to provide access to the Internet. The RS-232 model supports DTE speeds of 230K bps and provides a DE-15 voice/data interface and permanent screw-type power connector. The USB model provides for the easiest modem installation. The USB interface features a 12M bps serial connection and utilizes an RJ-9 jack for voice connectivity. In addition, it is host-based USB powered which means no external power supply is required.

RS-232/USB Application



Ethernet Connectivity. The MultiModem CDMA cellular modem with an Ethernet interface provides shared Internet access with one IP address. The built-in routing capabilities provide DHCP services and firewall security utilizing Network Address Translation. The modem can be configured for one of three network connections: always-on, wake-up on ring, or dial-on demand. The always-on network connection automatically establishes a wireless data connection and allows for around the clock surveillance, monitoring or real-time data acquisition of any remote Ethernet device such as a Web camera. If the data link is dropped in the event of poor reception or a complete loss of service, it will automatically re-establish the data link. The wake-up on ring configuration allows the modem to “wake up” and initiate a connection when it detects an incoming ring. For security reasons, you can setup the modem to wake up based on the caller ID. This configuration is ideal for reducing the costs associated with the modem being online and available 24/7. When configured for dial-on demand, the wireless modem only accesses the Internet when data is present. This configuration is ideal for sharing Internet access among networked PCs.

Ethernet Application



Industry-standard Modem Commands. The MultiModem CDMA cellular modem provides industry-standard AT-style commands for ease of integration into your existing software application.

Network and RF Approved. The MultiModem CDMA is CDG 1 and 2 certified. In addition, it has successfully completed worldwide compliance testing for global RF approval.

Comprehensive Service and Support. The Multi-Tech commitment to service means we provide a two-year product warranty and service that includes technical support, 24-hour web site and ftp support.

Specifications

Packet Data Features

CDMA2000 1xRTT, up to 153.6K bps forward & reverse channels

Circuit Switched Data/Fax Features

IS-95A, IS-95B up to 14.4K bps

SMS Features

ASCII Text & UCS-2, Point-to-Point, cell broadcast

Internet Protocols Supported

Dial-in PPP, DNS, FTP, HTTP, ICMP, IP, IPCP, LCP, POP3, PPP, SMTP, SNMP, STMP, TCP, Telnet, TFTP, & UDP protocols (included on models with -IP)

Antenna Connector

RF Antenna: 50 ohm SMA (Female connector)

Interface Connectors

RS-232 Model: DE-15

USB Model: USB Type B

Ethernet Model: RJ-45, 10BaseT/100BaseTX, 802.3

Power Connectors

RS-232 & Ethernet Models: 2.5mm miniature screw

USB Model: Bus Powered

Voice Connectors

RS-232 Model: Optional Y-cable

USB & Ethernet Models: RJ-9 4-pos modjack

Power Requirements

5V to 32VDC (external models)

Physical Description

RS-232 & USB Models:

4.3" L x 2.4" W x 0.94" H; 4.2 oz.
(11 cm x 6.1 cm x 2.4 cm; 119g)

Ethernet Model:

2.8" L x 7.0" W x 1.2" H; 11.5 oz.
(7.1 cm x 17.8 cm x 3.0 cm; 326g)

Operating Environment

-30° to +70° C

Certifications

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

Safety: cUL, UL 60950, EN 60950

Network: CDG 1 & 2

Ordering Information

Product	Description	Region
MTCBA-C*	800/1900 MHz CDMA Modem	Regional

Ordering Codes

-N2	For Sprint Networks (USA)
-N3	For Verizon Networks (USA)
-IP	Embedded TCP/IP Stack
-U	USB Interface
-EN	Ethernet Interface
-NAM	Includes US Style power cord

* 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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