

# MultiModem® rCell

## Intelligent CDMA Wireless Router



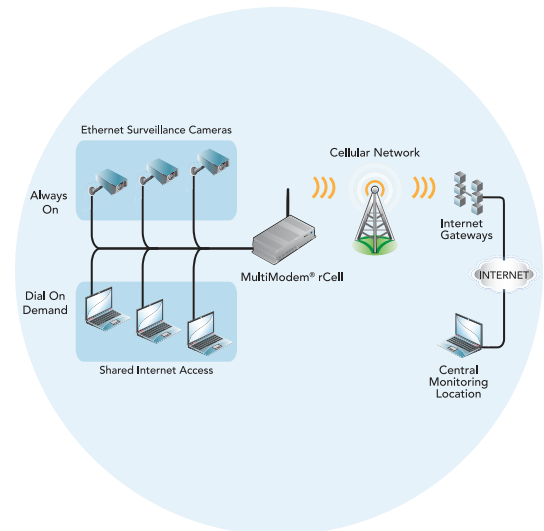
The MultiModem® rCell intelligent CDMA wireless router offers standards-based dual-band CDMA2000 1xRTT performance via the integrated cellular modem. This ready-to-deploy, standalone router integrates seamlessly with virtually any application. The intelligent embedded operating system allows for automatic/persistent connectivity for mission-critical applications and enhanced machine-to-machine (M2M) functionality. The MultiModem rCell intelligent wireless router includes 10/100BaseT Ethernet and RS-232 serial connectivity and can be desktop or panel mounted.

## Features

- CDMA2000 1xRTT
- Dual-band 800/1900 MHz CDMA
- Models with GPS tracking capability
- NMEA-0183 V3.01 compliant GPS messages
- 10/100BaseT Ethernet LAN connectivity
- RS-232 port for connecting legacy equipment
- Embedded operating system for enhanced M2M functionality
- Stateful Packet Inspection firewall with packet filter rules
- Supports IPSec VPN tunnels for secure LAN-to-LAN access
- 3DES and AES encryption
- Built-in dynamic DNS client
- SMA antenna connector(s)
- Over-the-Air activation (carrier dependent)
- Desktop or panel mounting
- FCC and Industry Canada certified
- Web-based management and configuration
- Two-year warranty

## Benefits

- Intelligent Embedded OS
- Stateful Packet Inspection firewall
- Supports VPN connections
- Ethernet and RS-232 connectivity
- Carrier approved



## Highlights

**Applications.** The MultiModem rCell intelligent wireless router with 1xRTT CDMA support is ideal for applications connection which periodically need to send or receive data over a wireless network. For asset tracking and fleet management applications, models with a dedicated GPS receiver are available.

**Embedded OS for Enhanced M2M Connectivity.** Multi-Tech's embedded operating system provides a web-based programming interface providing easy access to many of the advanced features offered by the MultiModem rCell.

For example, the router can be configured for one of three connectivity modes: always on – when powered on, the router automatically establishes a connection to the wireless network and will re-establish the data link if the connection is lost. Wake-up on ring/Caller ID – this setting allows the router to establish a data link when the router detects an incoming ring or when the router detects an incoming ring based on a particular Caller ID number. Dial-on-demand – when the router is configured for dial on demand, it will establish a data link when LAN activity is detected.

**Secure VPN Connections.** The MultiModem rCell intelligent wireless router uses the IPSec industry standard protocol, data encryption, and the Internet to provide high performance, secure VPN connections. For LAN-to-LAN connectivity, the MultiModem rCell wireless router utilizes the IPSec protocol to provide tunnels with strong 3DES or AES encryption using IKE and PSK key management. Sized appropriately for M2M applications with support for two concurrent VPN tunnels.

**Reduces Development Time.** The MultiModem rCell intelligent wireless router 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 RF and carrier approvals.

**Multiple Interface Options.** The MultiModem rCell intelligent wireless router is designed around multiple interface options including Ethernet and RS-232 serial interfaces, to provide you with seamless connectivity for your application. Each interface option offers unique features and benefits related to the technology it supports.

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

## Specifications

### General Features

CDMA2000 1xRTT dual-band 800/1900 MHz  
CDMA IS-95A, IS-95B backwards compatible

### Packet Data Features

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

### GPS

Position: 2.5 meters  
Aquisition: Hot start 1 second; cold start 29 seconds avg.  
Sensitivity: Tracking -161 dBm  
Protocol: NMEA-0183 V3.01, GGA, GLL, GSA, GSV, RMC, VTG

### Connectors

LAN: RJ-45, 10/100BaseT  
RS-232 Data: DE-9 female, 921.6K bps max serial speed  
RF & GPS Antenna: 50 ohm SMA female  
Power: 2.5mm miniature screw

### Power Requirements

9V to 32VDC

### Physical Description

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)

### Environment

Operating: -40° to +185° F (-40° to +85° C)  
Storage: -40° to +185° F (-40° to +85° C)  
Humidity: 20% to 90% non-condensing

### Certifications

EMC: FCC Part 15, 22, 24; RSS 132, 133  
Safety: cUL 60950-1, UL 60950-1; IEC 60950-1  
Network: CDG 1 & 2

## Ordering Information

Product	Description	Region
MTCBA-C1-EN2-Nx*	Intelligent 1xRTT CDMA Router	Regional
MTCBA-C1-EN2-GP-Nx*	Intelligent 1xRTT CDMA Router (GPS)	Regional

### Ordering Codes

-N2 For Sprint Networks (USA)  
-N3 For Verizon Wireless Networks (USA)  
-NAM Includes US Style Power Plug

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

Produced in the US of US and non-US components.

Features and specifications are subject to change without notice.

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**World Headquarters**  
Tel: (763) 785-3500  
(800) 328-9717  
[www.multitech.com](http://www.multitech.com)

**EMEA Headquarters**  
Multi-Tech Systems (EMEA)  
United Kingdom  
Tel: +(44) 118-959 7774