

# MultiModem® rCell

## Intelligent HSDPA Wireless Router



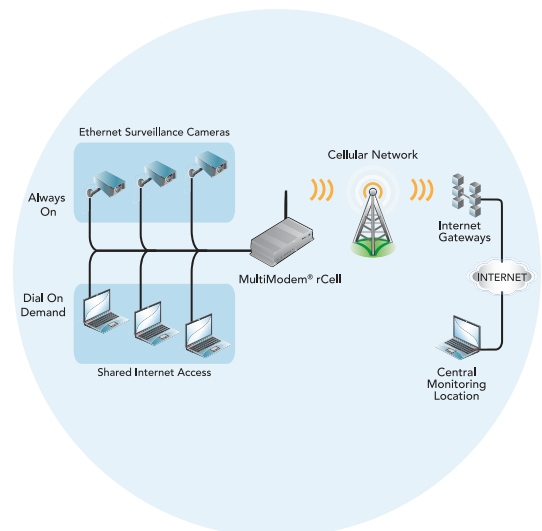
The MultiModem® rCell intelligent wireless router offers standards-based tri-band HSDPA performance via the integrated cellular modem. This ready-to-deploy, standalone router provides shared Internet access and integrates seamlessly with virtually any application. The intelligent embedded operating system 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

- Tri-band UMTS/HSDPA 3.6
- Quad-band GSM/GPRS/EDGE
- 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 and SIM socket
- Desktop or panel mounting
- FCC, PTCRB and R&TTE 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 HSDPA support is ideal for highly data-intensive, mission critical applications such as remote video surveillance, downloading large files or where there is a need for shared Internet access over a high-speed wireless connection.

**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 PTCRB and RF 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 technical support, 24-hour web site and ftp support.

## Specifications

### General Features

Tri-band UMTS/HSDPA (WCDMA/FDD), 850/1900/2100 MHz, UMTS/HSDPA 3GPP release 5  
HSDPA: 3.6M bps max. download, 384K bps max. upload  
UMTS: 384K max. download, 384K bps max. upload  
Quad-band GSM/GPRS/EDGE, 850/900/1800/1900 MHz

### Packet Data Features

HSDPA: UE CAT [1-6], 11, 12 supported, Compressed mode according to 3GPP TS25.212  
EDGE: Class 10, MCS 1-9  
GPRS: Class 10, CS 1-4

### Connectors

LAN: RJ-45, 10/100BaseT  
RS-232 Data: DE-9 female, 921.6K bps max serial speed  
RF Antenna: 50 ohm SMA female  
Power: 2.5mm miniature screw  
SIM: Standard 1.8V & 3V SIM receptacle

### 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: -30° to +60° C  
Storage: -40° to +85° C  
Humidity: 20% to 90% non-condensing

### Approvals

CE Mark  
EMC: FCC Part 15, 22, 24; EN 55022, EN 55024, EN 301 489-1, EN 301 489-7, EN 301 489-24, EN 301 511; RSS 132, 133, 102  
Safety: cUL 60950-1, UL 60950-1; IEC 60950-1, AS/NZS60950-1  
Network: PTCRB

## Ordering Information

Product	Description	Region
MTCBA-H-EN2*	Intelligent HSDPA 3.6 Router	Global
<b>Ordering Codes</b>		
-NAM	Includes US Style Power Plug	
-EU	Includes Euro Style Power Plug	
-GB/IE	Includes UK 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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