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# MultiModem® iCell

## Intelligent EDGE Cellular Modem



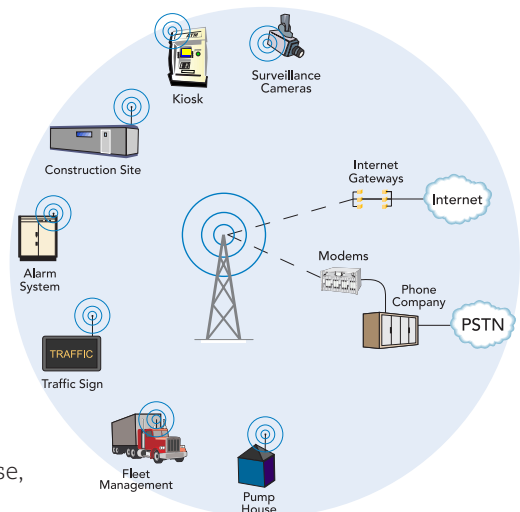
The MultiModem® iCell intelligent EDGE cellular modem offers standards-based quad-band EDGE performance. This ready-to-deploy, standalone modem provides wireless data communication and integrates seamlessly with virtually any application. The intelligence of the embedded Universal IP stack allows for automatic/persistent connectivity for mission critical applications and enhanced M2M functionality. The MultiModem iCell intelligent cellular modem is based on industry-standard open interfaces and can be desktop or panel mounted.

### Features

- EDGE (E-GPRS) Class 12
- GPRS Class 12
- Quad-band GSM 850/900/1800/1900 MHz
- Universal IP stack for enhanced machine-to-machine functionality
- Event monitoring and reporting via integrated GPIO ports
- Supports Short Message Service such as text and PDU mode, point-to-point (MT/MO) and cell broadcast
- Circuit-switched data up to 14.4K bps non-transparent mode
- RS-232 interface supports DTE speeds to 230.4K bps
- USB 2.0 full speed interface (supported in a future firmware release, currently RS-232 only)
- SMA antenna connector and SIM socket
- Desktop or panel mounting
- FCC, PTCRB and R&TTE certified
- AT command compatible
- Two-year warranty

### Benefits

- Intelligent Universal IP stack
- Enhanced M2M functionality
- Programmable GPIO ports
- Carrier approved



## Highlights

**Applications.** The MultiModem iCell intelligent cellular modem with EDGE support is ideal for highly data-intensive, mission critical applications such as remote video surveillance and other multimedia applications where you are sending digital images, web pages and photographs.

**Universal IP for Enhanced M2M Connectivity.** Multi-Tech's Universal IP stack (UIP) consists of a common set of TCP/IP networking protocols and M2M applications implemented using a standard AT command interface. UIP provides developers a common programming interface effectively future proofing their application as new cellular technologies are introduced. Some of the benefits of UIP are Automatic/Persistent Connectivity, Device Monitor, Event Monitoring/Reporting, Ping & TCP Keep Alive and Wake-up on Caller ID/Wake-up on Ring.

**Reduces Development Time.** The MultiModem iCell intelligent 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 PTCRB and RF approvals.

**Multiple Interface Options.** The MultiModem iCell intelligent cellular modem is designed around a broad range of interface options including RS-232; USB (supported in a future firmware release) and GPIO 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 telephone technical support, 24-hour web site and ftp support.

## Ordering Information

Product	Description	Region
MTCMR-E*	Intelligent EDGE Modem	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.

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

Features and specifications are subject to change without notice.

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## Specifications

### Packet Data Features

EDGE: E-GPRS Class 12, Modulation and coding scheme MCS 1-9, Mobile station Class B  
 GPRS: GPRS Class 12, full PBCCH support, coding scheme 1 – 4, Mobile station Class B

### Circuit Switched Data/Fax Features

Asynchronous, non-transparent up to 14.4K bps

### SMS Features

Text & PDU, Point-to-Point MO & MT, cell broadcast

### Universal IP Features

TCP/IP features: DNS resolve, FTP client, Ping, POP3 client, PPP (dial-out), SMTP client, TCP RAW client & server, UDP RAW client & server, PAP, CHAP

### Connectors

RF Antenna: 50 ohm SMA female  
 RS-232: DB-9 female  
 USB: USB Type B (future firmware release)  
 Power: 2.5mm miniature screw  
 GPIO: 6-pin Molex female with ESD protection  
 SIM: Standard 3V SIM receptacle

### Power Requirements

9V to 32VDC

### GPIO Functions

Pin 1-2: Programmable digital input/output  
 Pin 3-4: Programmable digital input/output or ADC  
 Pin 5: ADC  
 Digital inputs: 5V tolerant TTL/CMOS levels; digital outputs: 3.3V high; ADC inputs: 0 to 3.3V rail; Output current: 2mA max

### Physical Description

4.9" w x 1.1" h x 3.5" d; 8 oz  
 (12.4 cm x 2.8 cm x 8.9 cm; 227 g)

### Environment

Operating: -30° to +50° C  
 Storage: -40° to +85° C  
 Humidity: 20% to 90% non-condensing

### Certifications

CE Mark, R&TTE  
 EMC: FCC Part 15, 22, 24; EN 55022, EN 55024, EN 301 489-1, EN 301 489-7, EN 301 511; RSS 132, 133,102  
 Safety: cUL 60950-1, UL 60950-1; EN 60950-1, AS/NRZ60950-1  
 Network: PTCRB