MultiModem® iCell

Intelligent GPRS Cellular Modem

Benefits

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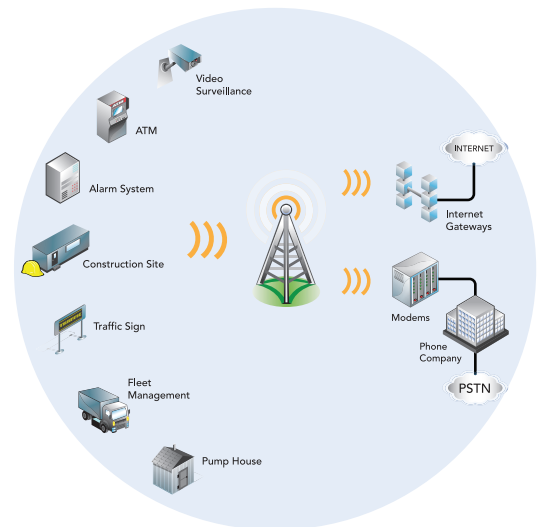- Programmable GPIO ports
- Carrier approved

The MultiModem® iCell intelligent GPRS cellular modem offers standards-based quad-band GPRS 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

- GPRS Class 10
- Quad-band 850/900/1800/1900 MHz
- Intelligent 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
- RS-232 interface supports DTE speeds to 115.2K 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

Highlights

Applications. The MultiModem iCell intelligent cellular modem with GPRS support is ideal for applications which periodically need to send or receive data over a wireless network.

Universal IP for Enhanced M2M Connectivity. Multi-Tech's Universal IP stack consists of a common set of TCP/IP networking protocols and M2M applications implemented using a standard AT command interface. Universal IP provides developers a common programming interface effectively future proofing their application as new cellular technologies are introduced. Some of the benefits of Universal IP 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 technical support, 24-hour web site and ftp support.

Ordering Information

Product	Description	Region
MTCMR-G*†	Intelligent GPRS Modem	Global

Ordering Codes

-F4	850/900/1800/1900 MHz GPRS Modem
-ED	900/1800 MHz Default
-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 for detailed product model numbers.

† All build options support 850/900/1800/1900 MHz cellular connectivity. Standard builds default to 850/1900 MHz while the builds that include a -ED in the ordering code default for 900/1800 MHz.

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
GPRS Class 10, PBCCH support
Coding Schemes: CS1 to CS4
Embedded TCP/IP stack

Circuit Switched Data/Fax Features
Asynchronous, transparent & non-transparent up to 14.4K bps, MNP2 & V.42bis

SMS Features
Text & PDU, Point-to-Point, 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 +70° 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

MultiTech® Systems