MultiModem® iCell

Intelligent GPRS Cellular Modem

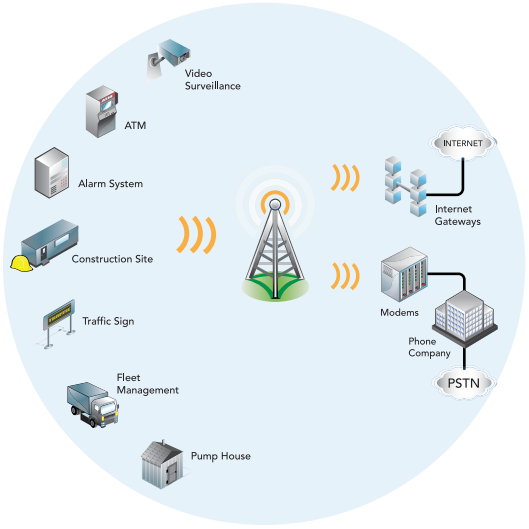
Benefits

- 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 GPS tracking 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
- Models with GPS tracking capability
- NMEA-0183 V3.01 compliant GPS messages
- Event monitoring and reporting via integrated GPIO ports
- Supports Short Message Service
- Available with RS-232 and USB 2.0 interfaces
- Packet data up to 85.6K bps
- Circuit-switched data up to 14.4K bps
- USB 2.0 full speed interface
- SMA antenna connector(s) and SIM socket
- Desktop or panel mounting
- FCC, PTCRB and R&TTE certified
- AT command compatible
- Two-year warranty



MultiTech® Systems

Highlights

Applications. The MultiModem iCell intelligent cellular modem with GPRS 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. For asset tracking and fleet management applications, models with a dedicated GPS receiver are available.

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 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 technical support, 24-hour web site and ftp support.

Ordering Information

Product	Description	Region
MTCMR-G2*	Intelligent GPRS Modem	Global
MTCMR-G2-GP*	Intelligent GPRS Modem (GPS)	Global
Ordering Codes		
-NAM	Includes US Style Power Plug	
-ED	900/1800 MHz Default	
-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.

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

Features and specifications are subject to change without notice.

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

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

RF & GPS Antenna: 50 ohm SMA female
RS-232: DE-9 female / USB: USB Type B
Power: 2.5mm miniature screw
GPIO: 6-pin Molex female with ESD protection
SIM: Standard 1.8V & 3V SIM receptacle

Power Requirements

9V to 32VDC

GPIO Functions

Pin 1-2: Digital input, 24V tolerance
Pin 3-4: Configurable as digital input (5V tolerant TTL/CMOS levels); digital outputs (3.3V high), or ADC inputs (0 to 3.3V rail)
Pin 5: ADC input (0 to 3.3V rail)
Pin 6: Ground (must be connected to the ground of the attached device)

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: -22° to +122° F (-30° to +50° C)
Storage: -40° to +185° F (-40° to +85° C)
Humidity: 20% to 90% non-condensing

Certifications

EMC Compliance: FCC Part 15 Class B; EN55022 Class B
Radio Compliance: FCC Part 22, 24; RSS 132, 133; EN301 489-1, EN301 489-3 (GPS model only), EN301 489-7, EN301 511, AS/ACIF S042.1, AS/ACIF, S042.3
Safety: UL 60950-1, cUL 60950-1, IEC 60950-1
Network Compliance: PTCRB

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