阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网,版权归原作者所有。如读者和版权方有任何异议请及时告之,我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译,其目的是协助用户阅读,该译文无法自动跟随原稿更新,同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料,来自厂商的技术支持或者使用者的心得体会等,其内容可能存在描 叙上的差异,建议读者做出适当判断。
- 4.如需与我们联系,请发邮件到marketing@iczoom.com,主题请标有"数据手册"字样。

Read Statement

- 1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
- 2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
- 3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
- 4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".

SocketModem® iCell



Intelligent Cellular Modems

The SocketModem® iCell intelligent cellular modem is a complete, ready-to-integrate communications device ideal for customers looking to add wireless communication or GPS tracking to their solutions.

The intelligence of the embedded Universal IP® stack allows for automatic/persistent connectivity for mission critical applications and enhanced M2M functionality.

Key Features & Benefits

- · 2G and 3G, GSM and CDMA models
- Universal Socket connectivity
- Intelligent Universal IP stack for enhanced M2M functionality
- · Models with GPS tracking capability
- NMEA-0183 V3.01 compliant GPS messages
- Event monitoring and reporting via four programmable GPIOs
- Short Message Services (SMS)
- UFL antenna connectors
- · Serial only or Serial/USB models
- · Serial interface supports speeds up to 921.6K bps
- AT command compatible
- Two-year warranty

Benefits

- Intelligent Universal IP stack for persistent/automatic connectivity and ease of network migrations
- Approved by carriers and regulatory agencies saving customers time, money, and protection from the risks associated with pursuing their own certifications
- Quick to market leveraging Multi-Tech's approvals
- Interchangeable communications devices for easy migration to future networks
- · Long solution lifecycle reduces redesign time and cost
- · High quality, reliable solution delivers on the promise of "M2M Simplified"
- Support from the leading experts in M2M technology



Specifications

Models	MTSMC-H5-IP/GP	MTSMC-EV2-IP/GP MTSMC-EV3-IP/GP	
Performance	HSPA+	EV-DO Rev A	
Frequency Bands	3G: 850/900/1700 (AWS)/1900/2100 MHz 2G: 850/900/1800/1900 MHz	800/1900 MHz	
USB	USB 2.0 Full Speed	USB 2.0 Full Speed	
TCP/IP Functions	DNS resolve, FTP client, Ping, POP3 client, PPP		
Connectors	Antenna: Up to 3 UFL (Cellular, Rx Diversity & GPS) SIM Holder: Standard 1.8V and 3V	EV2 Models: Up to 2 UFL (Cellular & GPS) EV3 Models: Up to 3 UFL (Cellular, Rx Diversity & GPS)	
Dimensions	3.15" x 1.375" (80.010 mm x 34.925 mm)		
Power Draw*	IP Models: 5VDC; 81mA idle, 502mA maximum GP Models: 5VDC; 154mA idle, 580mA maximum	EV2-IP Models: 5VDC; 44mA sleep, 225mA typical, 770mA maximum EV3-IP Models: 5VDC; 83mA idle, 485mA maximum	
Input Power	3.3V - 5VDC	EV2 Models: 5VDC; EV3 Model: 3.3V - 5VDC	
Environmental			
Operating Temperture	-35° to +85° C	-40° to +85° C	
Storage Temperture	-40° to +85° C		
Humidity	20% to 90% RH, non-condensing		
Certifications			
EMC Compliance	FCC Part 15 Class B, EN55022, EN55024	FCC Part 15 Class B	
Radio Compliance	FCC Part 22, FCC Part 24, RSS 132, RSS 133, EN 301 511, EN 301 489-1, EN 301 489-7	FCC Part 22, FCC Part 24	
Safety	UL 60950-1 2nd ED, cUL 60950-1 2nd ED, IEC 60950-1 2nd ED		
Network	PTCRB	N/A	
Carrier	AT&T	EV2 Models: Aeris & Sprint EV3 Models: Verizon	

^{*} See device guides for additional information.

Highlights

Universal IP for Enhanced M2M Connectivity

Multi-Tech's Universal IP® stack consists of a common set of TCP/IP and other common modem functions that are implemented using a standard set of AT commands. The result for customers is reduced development time when using more than one cellular technology or when a cellular module/radio goes end-of-life. Multi-Tech products with Universal IP are designed for applications needing enhanced M2M communications connectivity, including:

- Auto Connect/Persistent Connectivity Allows a modem to connect and stay connected without being managed by an intelligent device. It can also work with remote wake up to start a connection, as well as ping and TCP keep alive to keep the connection active.
- Device Monitoring Acts as a watchdog to monitor and manage the connection. If the device becomes unresponsive, the device monitor can perform a reset to get it back to a known state.
- Event Monitoring and Reporting via GPIO Uses general purpose input/outputs to monitor the state of a connected device. Universal IP can be configured to send status updates when the state of the connected device has passed pre-configured thresholds.

Specifications

Models	MTSMC-G2-IP/GP	MTSMC-C2-IP/GP	
Performance	GPRS Class 10	CDMA2000 1xRTT	
Frequency Bands	850/900/1800/1900 MHz	800/1900 MHz	
USB	N/A	N/A	
TCP/IP Functions	DNS resolve, FTP client, Ping, POP3 client, PPP		
Connectors	Antenna: Up to 2 UFL (Cellular & GPS) SIM Holder: Standard 1.8V and 3V	Up to 2 UFL (Cellular & GPS)	
Dimensions	3.15" x 1.375" (80.010 mm x 34.925 mm)		
Power Draw*	5VDC; 80mA sleep, 135mA typical, 280mA maximum	IP Models: 5VDC; 100mA idle, 689mA maximum GP Models: 5VDC; 173mA idle, 767mA maximum	
Input Power	5VDC	3.3V - 5VDC	
Environmental			
Operating Temperture	-40° to +85° C		
Storage Temperture	-40° to +85° C		
Humidity	20% to 90% RH, non-condensing		
Certifications			
EMC Compliance	FCC Part 15 Class B, EN55022, EN55024	FCC Part 15 Class B	
Radio Compliance	FCC Part 22, FCC Part 24, RSS 132, RSS 133, EN 301 511, EN 301 489-1, EN 301 489-7	FCC Part 22, FCC Part 24	
Safety	UL 60950-1 2nd ED, cUL 60950-1 2nd ED, IEC 60950-1 2nd ED		
Network	PTCRB	N/A	
Carrier	AT&T	Verizon approved, Aeris & Sprint pending	

^{*} See device guides for additional information.

SocketModem iCell Pin-Out

The SocketModem iCell intelligent cellular modem interfaces easily with existing products through a standard serial or USB 2.0 interface. The serial channel is capable of transfer speeds up to 921.6K bps and can be interfaced directly to a UART or microcontroller. The complete on-board RF transceiver interfaces with an antenna for direct connection to wireless SMS or packet data networks.

It als an c LED

It also includes an onboard LED to display network status.

Applications

With increased 3G packet data rates, the SocketModem iCell intelligent cellular modem will support highly data-intensive applications such as remote video surveillance, multimedia POS/ATM terminals as well as other data-intensive applications. For asset tracking and fleet management applications, models with a dedicated GPS receiver are available.

Developer's Kit

The Developer's Kit allows you to plug in the communications device and use it for testing, programming and evaluation. For a complete listing of the Developer Kit contents,

 $visit\ www.multitech.com/pdfs/devkit.go$



| (I/O) Tip 1 | (I/O) Tip 2 | (I/O) Tip 3 | (I/O) Tip 4 | (I/O) Tip 5 | (I/O) Tip 6 |

Ordering Information

Ordering Informa	ation	
HSPA+ Models		
Product	Description	Region
MTSMC-H5-IP	Penta-band HSPA+ Modem w/Universal IP (Serial)	Global
MTSMC-H5-MI-IP	Penta-band HSPA+ Modem w/Universal IP (Serial & USB)	Global
MTSMC-H5-GP	Penta-band HSPA+ Modem w/GPS (Serial)	Globa
MTSMC-H5-MI-GP	Penta-band HSPA+ Modem w/GPS (Serial & USB)	Globa
EV-DO Models	,	
Product	Description	Pogion
MTSMC-EV2-IP-N2	•	Region
	EV-DO Rev A Modern w/Universal IP (Serial - Sprint)	US
MTSMC-EV3-IP-N3	EV-DO Rev A Modern w/Universal IP (Serial - Verizon)	US
MTSMC-EV2-IP-N16	EV-DO Rev A Modem w/Universal IP (Serial - Aeris)	US
MTSMC-EV2-MI-IP-N2	EV-DO Rev A Modem w/Universal IP (Serial & USB - Sprint)	US
MTSMC-EV3-MI-IP-N3	EV-DO Rev A Modem w/Universal IP (Serial & USB - Verizon)	US
MTSMC-EV2-MI-IP-N16	EV-DO Rev A Modem w/Universal IP (Serial & USB - Aeris)	US
MTSMC-EV2-GP-N2	EV-DO Rev A Modem w/GPS (Serial - Sprint)	US
MTSMC-EV3-GP-N3	EV-DO Rev A Modem w/GPS (Serial - Verzion)	US
MTSMC-EV2-GP-N16	EV-DO Rev A Modem w/GPS (Serial - Aeris)	US
MTSMC-EV2-MI-GP-N2	EV-DO Rev A Modem w/GPS (Serial & USB - Sprint)	US
MTSMC-EV3-MI-GP-N3	EV-DO Rev A Modem w/GPS (Serial & USB - Verizon)	US
MTSMC-EV2-MI-GP-N16	EV-DO Rev A Modern w/GPS (Serial & USB - Aeris)	US
	EV-DO Nev A Modern W/Gr 3 (Senai & OSB - Aens)	US
GPRS Models	5	
Product	Description 10 and 11 a	Region
MTSMC-G2-IP	Quad-band GPRS Class 10 w/Universal IP 850/1900 MHz Default	Global
MTSMC-G2-IP-ED	Quad-band GPRS Class 10 w/Universal IP 900/1800 MHz Default	Global
MTSMC-G2-GP	Quad-band GPRS Class 10 w/GPS 850/1900 MHz Default, Universal IP	Globa
MTSMC-G2-GP-ED	Quad-band GPRS Class 10 w/GPS 900/1800 MHz Default, Universal IP	Globa
CDMA Models		
Product	Description	Region
MTSMC-C2-IP-N2	CDMA 1xRTT Modem w/Universal IP (Sprint) 5V Single or 50-Pack	US
MTSMC-C2-IP-N3	CDMA 1xRTT Modem w/Universal IP (Verizon) 5V Single or 50-Pack	US
MTSMC-C2-IP-N16	CDMA 1xRTT Modem w/Universal IP (Aeris) 5V Single or 50-Pack	US
MTSMC-C2-GP-N2	CDMA 1xRTT Modem w/GPS (Sprint) 5V Single or 50-Pack	US
MTSMC-C2-GP-N3	CDMA 1xRTT Modem w/GPS (Verizon) 5V Single or 50-Pack	US
MTSMC-C2-GP-N16	CDMA 1xRTT Modem w/GPS (Aeris) 5V Single or 50-Pack	US
Developer Kit		
•		ъ.
Product	Description	Region

Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

Universal Socket Developer Kit

Dev Board, Power Supply, Cables, Antennas and Docs

Trademarks and Registered Trademarks: Multi-Tech and the Multi-Tech logo, SocketModem, Universal IP: Multi-Tech Systems, Inc. All other products and technologies are the trademarks or registered trademarks of their respective holders.

Services & Warranty

Multi-Tech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations. Products include a 2-year warranty.

Installation Support

Multi-Tech's Installation Support Service delivers priority service with the ability to work one-on-one with an experienced Multi-Tech technical support engineer, to guide you through the installation process for our products.

Technical Support Services

At Multi-Tech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your Multi-Tech representative or visit www.multitech.com/support.go.

World Headquarters

Multi-Tech Systems, Inc. 2205 Woodale Drive Mounds View, MN 55112 U.S.A. Tel: 763-785-3500 Toll-Free: 800-328-9717 Email: sales@multitech.com www.multitech.com

EMEA Headquarters

Global

Multi-Tech Systems (EMEA) Unit 1, Thames Court 2 Richfield Avenue Reading, Berkshire RG1 8EQ United Kingdom Tel: +(44) 118 959 7774 Email: sales@multitech.co.uk



MTSMI-UDK