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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

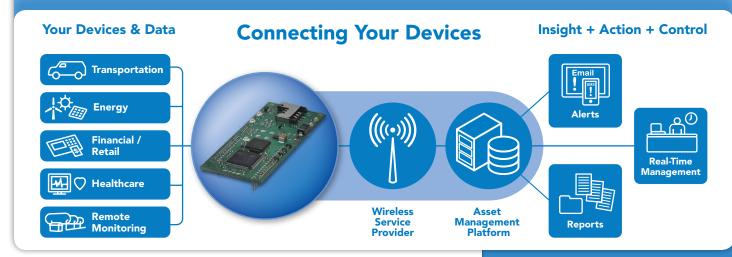
- Intelligent Universal IP stack for persistent/automatic connectivity and ease of network migrations
- Approved by carriers and regulatory agencies saving customers time, money, and protection from the risks associated with pursuing their own certifications
- Quick to market leveraging Multi-Tech's 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

Universal Socket Connectivity

MultiTech Systems



Utilize one system design and populate it with a variety of connectivity options to assure a seamless migration to future technologies.



M2M Simplified.[™] Innovative Designs, Innovative Solutions.

Silvi Holder: Standard 1.8V and 3VGPS)Dimensions3.15" 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 GP Models: 5VDC; 154mA idle, 580mA maximum EV3-IP Models: 5VDC; 83mA idle, 485mA maxim EV3-IP Models: 5VDC; 83mA idle, 485mA maxim EV3-IP Models: 5VDC; 83mA idle, 485mA maximInput Power3.3V - 5VDCEnvironmentalEV2 Models: 5VDC; EV3 Model: 3.3V - 5VDCOperating Temperture -35° to +85° C-40° to +85° CStorage Temperture Humidity-35° to +85° CCertificationsEVC Part 15 Class B, EN55022, EN55024EMC ComplianceFCC Part 15 Class B, EN55022, EN55024FCC Part 22, FCC Part 24, RSS 132, RSS 133,ECC Part 22, ECC Part 24	Specifications				
Frequency Bands3G: 850/900/1700 (AWS)/1900/2100 MHz 2G: 850/900/1800/1900 MHz800/1900 MHzUSBUSB 2.0 Full SpeedUSB 2.0 Full SpeedTCP/IP FunctionsDNS resolve, FTP client, Ping, POP3 client, PPPConnectorsAntenna: Up to 3 UFL (Cellular, Rx Diversity & GPS) SIM Holder: Standard 1.8V and 3VEV2 Models: Up to 2 UFL (Cellular, Rx Diversity & GPS)Dimensions3.15" x 1.375" (80.010 mm x 34.925 mm)Power Draw*IP Models: SVDC; 81mA idle, 502mA maximum GP Models: SVDC; 154mA idle, 580mA maximum GP Models: SVDC; 154mA idle, 580mA maximum GP Models: SVDC; 83mA idle, 485mA maxim EV2-IP Models: SVDC; 83mA idle, 485mA maxim EV3-IP Models: SVDC; EV3 Model: 3.3V - SVDCEnvironmentalOperating Temperture 2.65° to +85° COperating Temperture 2.65° to +85° C-40° to +85° CHumidity20% to 90% RH, non-condensingCertificationsEMC ComplianceEMC ComplianceFCC Part 15 Class B, EN55022, EN55024Padia ComplianceFCC Part 22, FCC Part 24, RSS 132, RSS 133,Padia ComplianceFCC Part 22, FCC Part 24, RSS 132, RSS 133,	Models	MTSMC-H5-IP/GP			
Frequency Bands2G: 850/900/1800/1900 MHz800/1900 MHzUSBUSB 2.0 Full SpeedUSB 2.0 Full SpeedTCP/IP FunctionsDNS resolve, FTP client, Ping, POP3 client, PPPConnectorsAntenna: Up to 3 UFL (Cellular, Rx Diversity & GPS) SIM Holder: Standard 1.8V and 3VEV2 Models: Up to 2 UFL (Cellular, Rx Diversity & GPS)Dimensions3.15" 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 GP Models: 5VDC; 154mA idle, 580mA maximum EV2-IP Models: 5VDC; 83mA idle, 485mA maxim EV3-IP Models: 5VDC; 80Operating Temperture Operating Temperture-35° to +85° C-40° to +85° C-40° to +85° CHumidity20% to 90% RH, non-condensingCertificationsECC Part 15 Class B, EN55022, EN55024EMC ComplianceFCC Part 22, FCC Part 24, RSS 132, RSS 133, FCC Part 24	Performance	HSPA+	EV-DO Rev A		
TCP/IP FunctionsDNS resolve, FTP client, Ping, POP3 client, PPPConnectorsAntenna: Up to 3 UFL (Cellular, Rx Diversity & GPS) SIM Holder: Standard 1.8V and 3VEV2 Models: Up to 2 UFL (Cellular, & Diversity & GPS)Dimensions3.15" x 1.375" (80.010 mm x 34.925 mm)EV2-IP Models: 5VDC; 44mA sleep, 225mA typic 70mA maximum GP Models: 5VDC; 154mA idle, 502mA maximum GP Models: 5VDC; 154mA idle, 580mA maximum GP Models: 5VDC; 154mA idle, 580mA maximum GP Models: 5VDC; 154mA idle, 580mA maximum EV3-IP Models: 5VDC; 83mA idle, 485mA maxim EV3-IP Models: 5VDC; EV3 Model: 3.3V - 5VDCEnvironmentalEV2 20% to 90% RH 20% to 90% RH	Frequency Bands		800/1900 MHz		
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Padia Compliance FCC Part 22, FCC Part 24, RSS 132, RSS 133, ECC Part 22, ECC Part 24	Certifications				
	EMC Compliance	FCC Part 15 Class B, EN55022, EN55024	FCC Part 15 Class B		
EN 301 511, EN 301 489-1, EN 301 489-7	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	Safety	UL 60950-1 2nd ED, cUL 60950-1 2nd ED, IEC 60950-1 2nd ED			
Network PTCRB N/A	Network	PTCRB	N/A		
Carrier AT&T EV2 Models: Aeris & Sprint EV3 Models: Verizon	Carrier	AT&T	•		

* 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:

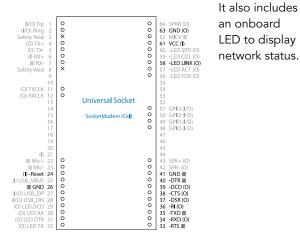
- Auto Connect/Persistent Connectivity Allows a modem to connect and stay connected without being managed by an intelligent device. It can also work with remote wake up to start a connection, as well as ping and TCP keep alive to keep the connection active.
- Device Monitoring Acts as a watchdog to monitor 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.

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, 689m <mark>A maximum</mark> GP Models: 5VDC; 173mA idle, 76 7mA 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.



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



Ordering Information

HSPA+ Models

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)	Global
MTSMC-H5-MI-GP	Penta-band HSPA+ Modem w/GPS (Serial & USB)	Global
EV-DO Models		ь ·
Product MTSMC-EV2-IP-N2	Description	Region
	EV-DO Rev A Modem w/Universal IP (Serial - Sprint)	US
MTSMC-EV3-IP-N3	EV-DO Rev A Modem 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 Modern w/GPS (Serial - Aeris)	US
MTSMC-EV2-MI-GP-N2	EV-DO Rev A Modern w/GPS (Serial & USB - Sprint)	US
MTSMC-EV2-MI-GP-N3	EV-DO Rev A Modern w/GPS (Serial & USB - Verizon)	US
MTSMC-EV2-MI-GP-N16	EV-DO Rev A Modern w/GPS (Serial & USB - Verizon)	US
	EV-DO Nev A Modern w/Gr 5 (Senar & 05b - Aens)	03
GPRS Models		
Product	Description	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	Global
MTSMC-G2-GP-ED	Quad-band GPRS Class 10 w/GPS 900/1800 MHz Default, Universal IP	Global
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		ь .
Product	Description	Region
MTSMI-UDK	Universal Socket Developer Kit Dev Board, Power Supply, Cables, Antennas and Docs	Global

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

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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.

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