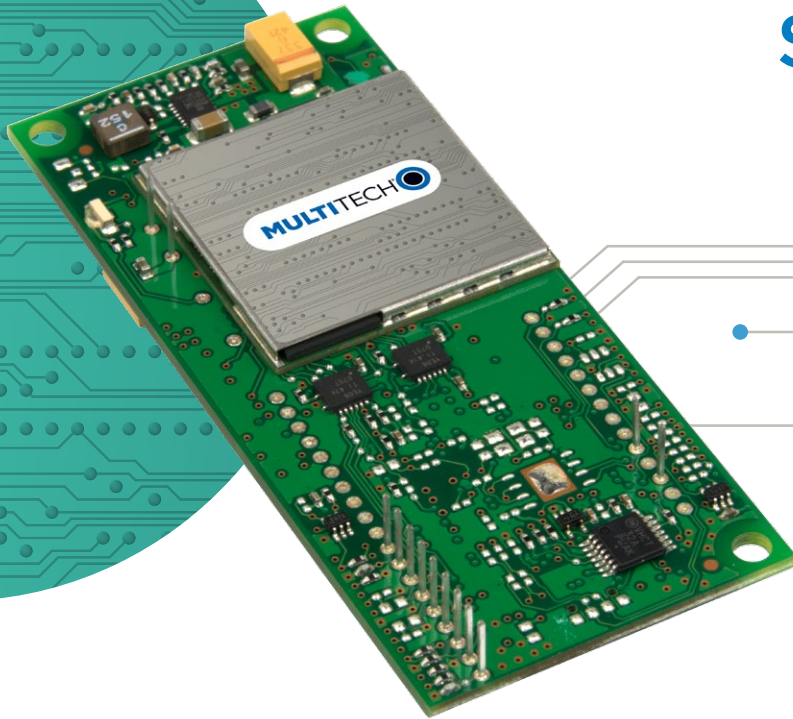


SocketModem[®] Cell

Embedded Cellular Modem
Supporting LPWA LTE Cat M1



FEATURES

- 4G models (Cat M1, Cat 3 and Cat 1), 3G and 2G
- 4G Cat M1 and Cat 3 models include GNSS
- Universal Socket connectivity
- Short Message Services (SMS)
- Serial or USB interfaces
- Serial interface supports speeds up to 921.6K bps
- AT command compatible
- USB 2.0 HS compatible (3G and 4G models)
- Two-year warranty

BENEFITS

- 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 MultiTech's approvals
- Interchangeable communications devices for easy migration to future networks
- Long solution lifecycle reduces redesign time and cost
- Support from leading experts in IoT/M2M technology

The **SocketModem[®] Cell** embedded cellular modem is a complete, ready-to-integrate communications device ideal for customers looking to add cellular communications to their IoT/M2M solutions.

Choose a carrier approved and end-product certified embedded modem from MultiTech to decrease your time to market and save you money.

www.multitech.com/SMCell

Your Devices & Data



Connecting Your Devices



Wireless
Service
Provider



Asset
Management
Platform

Insight + Action + Control



Alerts



Reports



Real-Time
Management

HIGHLIGHTS

Power Saving Modes (Cat M1 Models)

Extended Discontinuous Reception (eDRX) mode increases the length of time the end device can sleep before it has to check in with the network which saves power. Power Saving Mode (PSM) allows the device to notify the network it is going to sleep or dormant indefinitely only waking up based on user defined timer. Once the device wakes up and transmits it will stay awake for a few frames of time in case the network needs to reach that device. A device using PSM transmitting a small amount of data once per day could last many years using 2 AA batteries. (Note: Some power saving modes will be available in a future firmware release.)

SPECIFICATIONS

Model	MTSMC-LAT1 / MTSMC-LAT1-U MTSMC-LAT3 / MTSMC-LAT3-U	MTSMC-LEU1 MTSMC-LEU1-U	MTSMC-LVW2 / MTSMC-LVW2-U MTSMC-LVW3 / MTSMC-LVW3-U
Performance	LAT1: LTE 3GPP Release 9 (Category 3; 100 Mbps peak downlink/50 Mbps peak uplink) with HSPA+ 21/GPRS fallback LAT3: LTE 3GPP Release 9 (Category 1; 10 Mbps peak downlink/5 Mbps peak uplink) with HSPA fallback	LTE 3GPP Release 9 (Category 3; 100 Mbps peak downlink/50 Mbps peak uplink) with HSPA+ 42/GPRS fallback	LVW2: LTE 3GPP Release 9 (Category 3; 100 Mbps peak downlink/50 Mbps peak uplink) (No fall back) LVW3: LTE 3GPP Release 9 (Category 1; 10 Mbps peak downlink/5 Mbps peak uplink) (No fallback)
Frequency Bands (MHz)	LAT1: 4G: 700(B17)/850(B5)/AWS1700(B4)/1900(B2) 3G: 850(B5)/1900(B2) 2G: 850/1900 LAT3: 4G: 700(B12/B13)/850(B5)/AWS1700(B4)/1900(B2) 3G: 850(B5)/1900(B2)	4G: 800(B20)/1800(B3)/2600(B7) 3G: 850(B5)/900(B8)/2100(B1) 2G: 900/1800	LVW2: 700(B13)/AWS1700(B4) LVW3: 700(B13)/AWS1700(B4)/1900(B2)
SMS	Mobile Originate, Mobile Terminated and Cell Broadcast / PDU or Text Mode		
USB	USB 2.0 high speed compatible (-U models)		
TCP/IP Functions	FTP, SMTP, SSL, TCP, UDP		
Connectors	Antenna (LAT1/LVW2): 3 UFL (Cellular, Rx Diversity/MIMO, GPS) Antenna (LAT3/LVW3): 2 UFL (Cellular, Rx Diversity/MIMO) / Mini SIM (2FF); 1.8V & 3V		
Dimensions	3.15" x 1.375" (80.010 mm x 34.925 mm)		
Power Draw*	(LAT1) Serial Model @ 5VDC; 13mA sleep, 20mA idle, 400mA average at max power / USB Model @ 5VDC; sleep N/A, 29mA idle, 560mA average at max power (LAT3) Serial Model @ 5VDC; 13mA sleep, 20mA idle, 400mA average at max power / USB Model @ 5VDC; sleep N/A, 32mA idle, 432mA average at max power	(LEU1) Serial Model @ 5VDC; 4mA sleep, 49mA idle, 610mA average at max power / USB Model @ 5VDC; sleep N/A, 43mA idle, 610mA average at max power	(LVW2) Serial Model @ 5VDC; 4mA sleep, 15mA idle, 445mA average at max power / USB Model @ 5VDC; sleep N/A, 27mA idle, 500mA average at max power (LVW3) Serial Model @ 5VDC; 16mA sleep, 19mA idle, 373mA average at max power / USB Model @ 5VDC; sleep N/A, 104mA idle, 388mA average at max power
Input Power	3.3V – 5VDC		
Environmental			
Operating Temperature	-40° to +85° C		
Storage Temperature	-40° to +85° C		
Humidity	20% to 90% RH, non-condensing		
Certifications			
EMC Compliance	FCC Part 15 Class B	EN55022 Class B, EN55024	FCC Part 15 Class B
Radio Compliance	FCC Part 22, 24, 27	RED, RCM, EN 301 511, EN 301 489-1, EN 301 489-7, EN 301 489-24	FCC Part 27
Safety	UL 60950-1 2nd ED, cUL 60950-1 2nd ED, IEC 60950-1 2nd ED	IEC 60950-1 2nd ED, AS/NZS 60950.1	UL 60950-1 2nd ED, cUL 60950-1 2nd ED, IEC 60950-1 2nd ED
Network	PTCRB	N/A	
Carrier	AT&T, T-Mobile	N/A	Verizon

* See device guides for additional information.

ORDERING INFORMATION

LTE Models

Product	Description	Region
MTSMC-LAT1	LTE Cat 3 Embedded Modem w/Fallback & GNSS (Serial Interface)	US/Can
MTSMC-LAT1-U	LTE Cat 3 Embedded Modem w/Fallback & GNSS (USB Interface)	US/Can
MTSMC-LEU1	LTE Cat 3 Embedded Modem w/Fallback & GNSS (Serial Interface)	Euro/GB/AU
MTSMC-LEU1-U	LTE Cat 3 Embedded Modem w/Fallback & GNSS (USB Interface)	Euro/GB/AU
MTSMC-LVW2	LTE Cat 3 Embedded Modem w/GNSS w/o Fallback (Serial Interface) (Verizon)	US
MTSMC-LVW2-U	LTE Cat 3 Embedded Modem w/GNSS w/o Fallback (USB Interface) (Verizon)	US
MTSMC-LAT3	LTE Cat 1 Embedded Modem w/Fallback (Serial Interface)	US/Can
MTSMC-LAT3-U	LTE Cat 1 Embedded Modem w/Fallback (USB Interface)	US/Can
MTSMC-LVW3	LTE Cat 1 Embedded Modem w/o Fallback (Serial Interface) (Verizon)	US
MTSMC-LVW3-U	LTE Cat 1 Embedded Modem w/o Fallback (USB Interface) (Verizon)	US
MTSMC-MAT1	LTE Cat M1 Embedded Modem w/GNSS (Serial Interface) (AT&T/PTCRB)	US
MTSMC-MAT1-U	LTE Cat M1 Embedded Modem w/GNSS (USB Interface) (AT&T/PTCRB)	US
MTSMC-MVW1	LTE Cat M1 Embedded Modem w/GNSS (Serial Interface) (Verizon)	US
MTSMC-MVW1-U	LTE Cat M1 Embedded Modem w/GNSS (USB Interface) (Verizon)	US

HSPA+ Models

Product	Description	Region
MTSMC-H5	HSPA+ Embedded Modem (Serial Interface)	Global
MTSMC-H5-U	HSPA+ Embedded Modem (USB Interface)	Global

GPRS Models

Product	Description	Region
MTSMC-G3-EU	850/900/1800/1900 MHz GSM/GPRS Modem	Euro/GB

CDMA Models

Product	Description	Region
MTSMC-C2-N2	CDMA2000 1xRTT Modem (Serial Interface) (Sprint)	US
MTSMC-C2-N3	CDMA2000 1xRTT Modem (Serial Interface) (Verizon)	US
MTSMC-C2-N16	CDMA2000 1xRTT Modem (Serial Interface) (Aeris)	US

Developer Kits

Product	Description	Region
MTUDK2-ST-CELL	SocketModem & Dragonfly Developer Kit - Cellular	Global
MTSMI-UDK	Universal Socket Developer Kit - Cellular, Analog, Bluetooth, Ethernet	Global

Ordering part numbers as listed are 50 packs. To order a single pack add a -SP to the end of the ordering part number. (MTSMC-LAT1-SP)

SERVICES & WARRANTY

MultiTech'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.

INSTALLATION SUPPORT

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

TECHNICAL SUPPORT SERVICES

At MultiTech, 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 MultiTech 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

Multi-Tech Systems (EMEA)
United Kingdom
Tel: +(44) 118 959 7774
Email: sales@multitech.co.uk

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