MULTITECH®

MultiTech Dragonfly™

Embedded Cellular Modems 4G-LTE Models

MultiTech Dragonfly[™] embedded cellular modem is a complete, ready-to-integrate communications device ideal for customers looking to add 4G-LTE cellular communications to their IoT/M2M solutions.

Dragonfly connects to a host device through a standard micro USB connector or a 40-pin board-to-board connector. The USB connector provides the quickest time to market and enables basic cellular connectivity. The board-to-board connector provides USB connection to cellular module or access to cellular UART peripheral.

Users can configure and interact with the Dragonfly cellular modem through a set of industry-standard AT Commands, a vital tool for developers, network operators, and system integrators.

These quick-to-market devices minimize development time and expense when adding wireless communication to a host device or when transitioning to a new cellular technology.

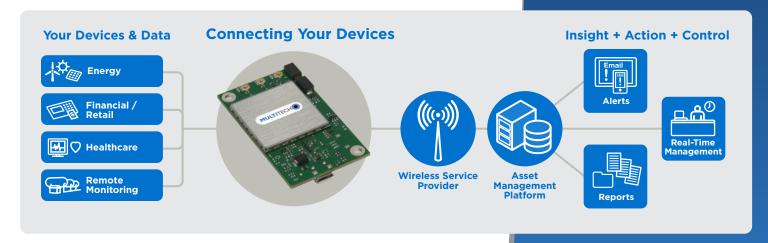


BENEFITS

- 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

FEATURES

- 4G Models (Cat 4, Cat 1 and Cat M1)
- Select models include GNSS and approved for use globally
- Connects using USB or board-to-board connector
- Short Message Services (SMS)
- AT command compatible
- USB 2.0 high speed compatible
- Two-year warranty



MultiTech Connection Manager

A software solution designed to greatly simplify and ease the installation, configuration and management of cellular connectivity in MultiTech USB and serial cellular modems that lack intelligence to manage these functions.

Connection Manager ensures that IoT edge applications using cellular backhaul can always



communicate to the Internet whenever needed by ensuring the cellular connection is always ready for transmission, ensuring the smooth operation of real-world IoT use cases. AT Commands, traditionally used to manage these functions, can prove time-consuming and difficult to the un-initiated. Connection Manager provides a much easier and faster method of managing USB and serial cellular modems to ensure persistent connectivity to the cellular network.

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.

Developer Kits

Developer Kits allow you to plug in the communications device and use it for testing, programming and evaluation.

MTUDK2-ST-CELL.R1 developer kit is designed to work with all of our cellular SocketModem* Cell and Dragonfly™ cellular modems. Developer kits include a development board and all the necessary accessories to get you up and running right out of the box.

SPECIFICATIONS

Models	MTQ-L1G2D-B02	MTQ-L4G1-B02	MTQ-LNA7-B02
Regions	Australia Canada European Union United Kingdom United States	Australia Canada European Union United Kingdom United States	Canada United States
Performance	3GPP Release 10 4G-LTE FDD Category 1 10 Mbps peak downlink 5 Mbps peak uplink with 3G/2G fallback	3GPP Release 11 4G-LTE FDD/TDD Category 4 150 Mbps peak downlink 50 Mbps peak uplink with 3G/2G fallback	LTE 3GPP Release 11 4G-LTE FDD Category 4 150 Mbps peak downlink 50 Mbps peak uplink with 3G fallback
Frequency Band (MHz)	4G LTE FDD (Europe): B1(2100), B3(1800), B7(2600), B8(900), B20(800) 3G (Europe Fallback): B1(2100), B3(1800), B8(900) 2G (Europe Fallback): B2(1900), B3(1800), B5(850), B8(900) 4G LTE FDD (AT&T): B2(1900), B4(AWS1700), B12(700), B14(700-FirstNet)† 4G LTE FDD (Verizon): B4(AWS1700), B13(700) 4G LTE FDD (Anterix): B8(900) 4G LTE FDD (APAC): B1(2100), B9(1800), B18(800), B19(850), B26(850), B28(700) 3G: B1(2100), B2(1900), B4(AWS1700), B5(850), B6(800), B8(900), B19(850)	4G LTE FDD (Europe): B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28(700) 3G (Europe Fallback): B1(2100), B3(1800), B8(900) 2G (Europe Fallback): B2(1900), B3(1800), B8(900) 4G LTE FDD (AT&T): B2(1900), B4(AWS1700), B12(700) 4G LTE FDD (Verizon): B4(AWS1700), B13(700) 4G LTE FDD: B5(850), B18(800), B19(800), B25(1900), B26(850) 4G LTE TDD: B38(2600), B39(1900), B40(23300), B41(2500)	4G LTE FDD (AT&T): B2(1900), B4(AWS1700), B12(700) 4G LTE FDD (T-Mobile): B2(1900), B4(AWS1700), B5(850) 4G LTE FDD (Verizon): B4(AWS1700), B13(700) 3G: B2(1900), B4(AWS1700), B5(850)
	4G LTE FDD Bands: B25(1900)	, , , , , , , , , , , , , , , , , , , ,	
GNSS		Yes	
GNSS			Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default
SMS	4G LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default
SMS	4G LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default
	4G LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP SV & 3V / Micro USB
SMS USB TCP/IP Functions	4G LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Ilular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP SV & 3V / Micro USB
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC	4G LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default USB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Ilular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default empliant FTP, HTTP, SMTP, SSL, TCP, UDP SV & 3V / Micro USB
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models)	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default USB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Ilular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average)	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average)	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental Operating Temperature	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default JSB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Ilular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC -40° C to +85° C (-40° F to +185° F)	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental Operating Temperature Storage Temperature	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC -40° C to +85° C (-40° F to +185° F) -40° C to +85° C (-40° F to +185° F)	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental Operating Temperature Storage Temperature Relative Humidity	Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA Max Power: 706 mA (average)	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC -40° C to +85° C (-40° F to +185° F) -40° C to +85° C (-40° F to +185° F)	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP RV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental Operating Temperature Storage Temperature Relative Humidity Certifications	Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA Max Power: 706 mA (average)	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC -40° C to +85° C (-40° F to +185° F) -40° C to +85° C (-40° F to +185° F) 20% to 90% RH, noncondensing	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default smpliant FTP, HTTP, SMTP, SSL, TCP, UDP 8V & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA Max Power: 712 mA (average)
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental Operating Temperature Storage Temperature Relative Humidity Certifications EMC & Radio Compliance	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA Max Power: 706 mA (average) CE, FCC, IC,	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC -40° C to +85° C (-40° F to +185° F) -40° C to +85° C (-40° F to +185° F) 20% to 90% RH, noncondensing	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP SV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA Max Power: 712 mA (average)
SMS USB TCP/IP Functions Connectors Dimensions Power Draw USB Only @ 5VDC (-B02 Models) Input Power Environmental Operating Temperature Storage Temperature Relative Humidity Certifications EMC & Radio Compliance Safety Compliance	AG LTE FDD Bands: B25(1900) Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode Micro U FTP, HTTP, SMTP, TCP, UDP, SSL Antenna: 3 UFL (Cel Sleep Mode (power down): 20 mA Idle: 49 mA Max Power: 706 mA (average) CE, FCC, IC,	Yes Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default ISB 2.0 high speed compatible. CMC-ACM co FTP, SMTP, SSL, TCP, UDP Illular, Auxiliary, GNSS) / Micro SIM (3FF): 1.8 Pin Header: 40-pin female for USB or UART 2.300" x 1.375" (58.4 mm x 34.9 mm) Sleep Mode (power down): 9.3 mA Idle: 27 mA Max Power: 539 mA (average) 3.3 - 5VDC -40° C to +85° C (-40° F to +185° F) -40° C to +85° C (-40° F to +185° F) 20% to 90% RH, noncondensing RCM, UKCA UL/cUL/IE	Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default Impliant FTP, HTTP, SMTP, SSL, TCP, UDP SV & 3V / Micro USB Sleep Mode (power down): 8.5 mA Idle: 36 mA Max Power: 712 mA (average)

^{*} See device guides or AT command guides for additional information.

[†] All future end-user (OEM) devices will and must go through FirstNet certification prior to being included in the FirstNet device ecosystem.

† Voice must be deactivated by AT commands for use on T-Mobile Network.

SPECIFICATIONS

Models	MTQ-LEU7-B02	MTQ-LAT3-B02	MTQ-MNG6-B02	MTQ-MNA1-B02
Regions	European Union United Kingdom	United States	Australia Canada European Union United Kingdom United States	Canada United States
Performance	LTE 3GPP Release 11 4G-LTE FDD Category 4 150 Mbps peak downlink 50 Mbps peak uplink with 3G/2G fallback	3GPP Release 9 4G-LTE FDD Category 1 10 Mbps peak downlink 5 Mbps peak uplink with 3G fallback	LTE 3GPP Release 14 4G LTE FDD Cat M1 M1: 588 Kbps peak downlink 1 Mbps peak uplink 2G: 264 Kbps peak downlink 210 Kbps peak uplink	3GPP Release 13 4G-LTE FDD Category M1 300 Kbps peak downlink 375 Kbps peak uplink
Frequency Band (MHz)	4G LTE FDD (Europe): B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700) 3G (Europe Fallback): B1(2100), B8(900) 2G (Europe Fallback): B3(1800), B8(900)	4G LTE FDD (AT&T): B2(1900), B4(AWS1700), B5(850), B12(700), B13(700) 3G (AT&T): B2(1900), B5(850)	4G LTE FDD (Europe): B1(2100), B3(1800), B8(900), B20(800) 2G (Europe Fallback): B2(1900), B3(1800), B5(850), B8(900) 4G (AT&T): B2(1900), B4(AWS1700), B12(700) 4G (T-Mobile): B2(1900), B4(AWS1700), B5(850), B66(AWS-3 1700) 4G (Verizon): B4(AWS1700), B13(700) 4G LTE FDD (APAC): B1(2100), B18(800), B19(850), B26(850), B28(700) 4G LTE FDD Bands: B25(1900), B27(800)	4G-Cat M1 FDD (AT&T): B2(1900), B4(AWS1700), B12(700) 4G-Cat M1 FDD (Verizon): B4(AWS1700), B13(700)
GNSS	No		Yes	
SMS	Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode SMS storage: ME by default	Circuit-Switching Domain (CS) Packet-Switching Domain (PS)	SMS over NAS	Mobile Originate Mobile Terminated Cell Broadcast PDU or Text Mode
USB	Micro USB 2.0 high speed compatible. CMC-ACM compliant		Micro USB 2.0 high speed compatible	Micro USB 2.0 high speed compatible. CMC-ACM complian
TCP/IP Functions	FTP, HTTP, SMTP, SSL, TCP, UDP			
Connectors	Antenna : 2 UFL (Cellular, Auxiliary) Micro SIM (3FF): 1.8V & 3V Micro USB Pin Header: 40-pin female for USB or UART		Antenna: 2 UFL (Cellular, GNSS) Micro SIM (3FF); 1.8V & 3V Micro USB Pin Header: 40-pin female for USB or UART	
Dimensions		2.300" x 1.375" (58	3.4 mm x 34.9 mm)	
Power Draw USB Only @ 5VDC (-B02 Models)	Sleep Mode (power down): 9 mA Idle: - Max Power: 792 mA (average)	Sleep Mode: 25 mA Idle: 38 mA Max Power: 510 mA (average)	Sleep Mode: 19 mA Idle: 43 mA Max Power: 383 mA (average)	Sleep Mode: 21 mA Idle: 38 mA Max Power: 238 mA (average)
Input Power		3.3 -	5VDC	
Environmental				
Operating Temperature	-40° C to +85° C (-40° F to +185° F)			
Storage Temperature	-40° C to +85° C (-40° F to +185° F)			
Relative Humidity	20% to 90% RH, noncondensing			
Certifications				
EMC & Radio Compliance	CE, RCM, UKCA	FCC	CE, FCC, IC, RCM, UKCA	FCC, IC
Safety Compliance	IEC 60950-1	UL/cUL 62350-1	UL/cUL/IEC 62368-1	UL/cUL 60950-1
Network Compliance	N/A		PTCRB	
	N/A	AT&T	AT&T, Verizon, T-Mobile	AT&T, Verizon
Network Operator	''''	711011		·

 $[\]ensuremath{^{\circ}}$ See device guides or AT command guides for additional information.

[†] All future end-user (OEM) devices will and must go through FirstNet certification prior to being included in the FirstNet device ecosystem.

†† Voice must be deactivated by AT commands for use on T-Mobile Network.

ORDERING INFORMATION

MultiTech Dragonfly™

Region	Description	Model
Global	LTE Cat 1 Embedded Cellular Modem w/Fallback & GNSS	MTQ-L1G2D-B02
Global	LTE Cat 4 Embedded Cellular Modem w/Fallback & GNSS	MTQ-L4G1-B02
Canada/ United States	LTE Cat 4 Embedded Cellular Modem w/Fallback & GNSS (AT&T/Verizon)	MTQ-LNA7-B02
Global	LTE Cat 4 Embedded Cellular Modem w/Fallback	MTQ-LEU7-B02
Canada/ United States	LTE Cat 1 Embedded Cellular SoM* w/Fallback (AT&T)	MTQ-LAT3-B01
Canada/ United States	LTE Cat 1 Embedded Cellular Modem w/Fallback (AT&T)	MTQ-LAT3-B02
Global	LTE Cat M1 Embedded Cellular Modem w/GNSS	MTQ-MNG6-B02
Canada/ United States	LTE Cat M1 Embedded Cellular SoM* w/GNSS (AT&T/Verizon)	MTQ-MNA1-B01
Canada/ United States	LTE Cat M1 Embedded Cellular Modem w/GNSS (AT&T/Verizon)	MTQ-MNA1-B02

(*) SoM model. Includes Cortex M4 host processor for hosting IoT applications. See device guides for additional information.

Global models are approved for use in Australia, Canada, European Union, New Zealand, United Kingdom, and United States.

Ordering part numbers as listed are 50 packs. To order a single pack add a -SP to the end of the ordering part number. (i.e. MTQ-L1G2D-B02-SP)

Go to www.multitech.com for detailed product model numbers.

Developer Kit

Model	Description	Region
MTUDK2-ST-CELL.R1	SocketModem® & Dragonfly Developer Kit (DB9 RS-232 Connector and USB)	Global

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

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

2024-06 • 86002177 • © 2024 Multi-Tech Systems, Inc. All rights reserved.

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.

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: multitech.com/product-support

World Headquarters

Multi-Tech Systems, Inc. 2205 Woodale Drive Mounds View, MN 55112 USA Tel: +1 763-785-3500 Email: sales@multitech.com www.multitech.com

