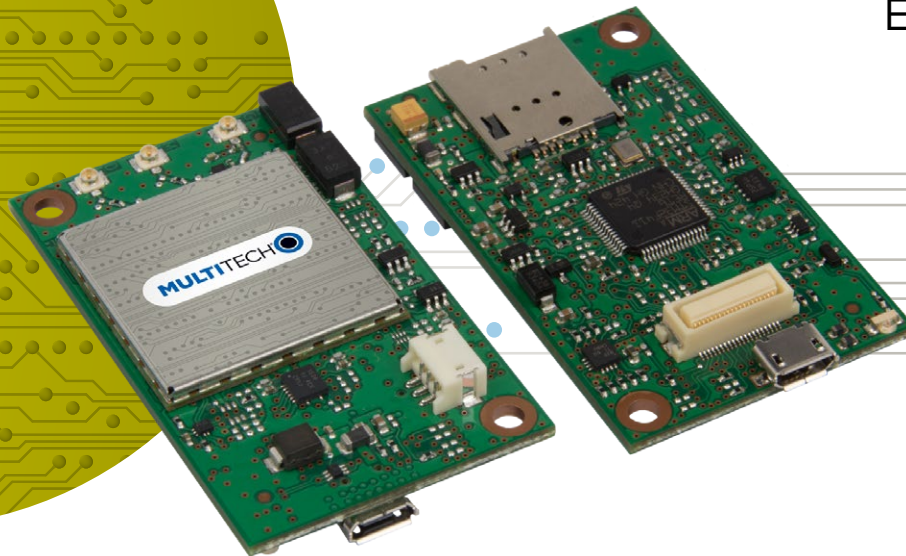


MultiConnect[®] Dragonfly[™]

Embedded Cellular SoM
(System-on-Module)



The MultiConnect[®] Dragonfly[™] cellular SoM's are fully certified and MNO approved, ready-to-integrate modules that offer developers the functionality of a programmable computing platform with the convenience of an onboard cellular radio all in one compact design. From a software perspective, Dragonfly is compatible with the ARM[®] mbed[™] programming platform allowing for rapid prototyping, development and deployment. With its integrated Cortex[®]-M4 processor, developers can host their application and have access to a full suite of interfaces for connecting sensors or other remote assets.

ARM[®] mbed[™]

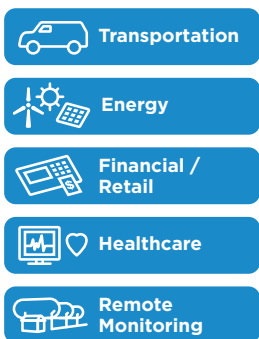
BENEFITS

- End device certified by leading carriers
- Family of cellular options include 2G 1xRTT, 3G HSPA+, 3G EV-DO and 4G-LTE
- Developer friendly to integrate and quickly deploy assets
- Long solution lifecycle reduces redesign time and cost

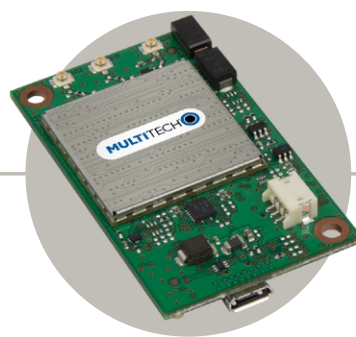
FEATURES

- Lightweight SoM ideal for most IoT applications
- On-board GNSS for fast and accurate location fix
- Multiple I/O interfaces for connecting most any "Thing"
- Design in or retrofit

Your Devices & Data



Connecting Your Devices



Wireless
Service
Provider

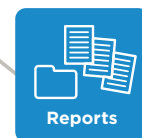


Asset
Management
Platform

Insight + Action + Control



Alerts



Reports



Real-Time
Management

HIGHLIGHTS

Host Your Applications

As the first ARM mbed cellular SoM listed on mbed.org that is industry certified and deployment ready, applications can be written and compiled quickly online using developer friendly libraries, downloaded and hosted within the Dragonfly. Decision making and control is distributed to the edge, enabling data to be more actionable without the heavy lift required to implement complex M2M middleware and security protocols needed to deploy a low touch install.

Design in or Retrofit

The MultiConnect Dragonfly can be used as an embedded cellular SoM providing the maximum in design and application flexibility or it can be used as an embedded cellular modem requiring little or no modification to your existing design. Connecting to the Dragonfly through its 40-pin board-to-board connector gives you access to all the programmable I/O interfaces. You can also connect to the Dragonfly using the industry standard micro USB port affording you the quickest time to market when your application only requires basic cellular connectivity.

SPECIFICATIONS

Model	MTQ-H5-B01
Performance	HSPA+
Frequency Band (MHz)	3G: 850/900/AWS 1700/1900/2100 MHz 2G: 850/900/1800/1900 MHz
TCP/IP Functions	FTP, HTTP, SMTP, SSL, TCP, UDP
Connectors	3 UFL (Cellular, Rx Diversity & GPS) 1xMicro USB, 1x 40-Pin Board-to-Board, 1xMicro SIM
Host Processor	Cortex M4 (STM32F411RET) 512 Kbytes of Flash memory and 96 Kbytes of SRAM
I/O	1 x UART, 1 x HS USB, 1 x SPI, 1 x I2C, up to 6 analog inputs and up to 16 digital input/output
Dimensions	58.4mm x 34.9mm (2.3 x 1.375 inches)
Power Draw	5VDC; 24mA sleep, 58mA idle, 640mA maximum
Input Voltage	5VDC
Environmental	
Operating Temperature	-40° to +85° C
Storage Temperature	-40° to +85° C
Relative Humidity	20% to 90% RH, non-condensing
Certifications	
EMC Compliance	FCC Part 15 Class B, EN55022, EN55024
Radio Compliance	FCC Part 22, FCC Part 24, RSS 132, RSS 133, EN 301 511, EN 301 489-1, EN 301 489-7, EN 301 489-24
Safety	UL 60950-1 2nd ED, cUL 60950-1 2nd ED, EN 60950-1 2nd ED, AS/NZS 60950-1 2nd ED
Network	PTCRB
Carrier	AT&T/T-Mobile (Bell, Rogers, Telus planned)
Warranty	2-Years

ORDERING INFORMATION

Model	Description	Region
MTQ-H5-B01	HSPA+ SoM w/GNSS	Global
MTQ-H5-B02	HSPA+ Embedded Modem w/GNSS	Global

Developer Kit

Model	Description	Region
MTUDK2-ST-CELL	SocketModem® & Dragonfly Developer Kit	Global

2G 1xRTT, 3G EV-DO and 4G-LTE models now sampling.

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

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

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

2016-02 • 86002177 • © 2016 Multi-Tech Systems, Inc. All rights reserved.

