MULTITECH®

MultiTech
Conduit® 300
Gateway

MultiTech Dragonfly™
Embedded Cellular
Modems & SoMs

MultiConnect®
CBRS Wi-Fi AP
Access Point

OnGo

Cellular Devices to Enable Smart Products & Services

Certified, carrier-approved modems, routers and gateways with your choice of LTE networking technologies.

COMMITTED TO CELLULAR IOT

MultiTech is committed to supporting the growth and development of the Industrial Internet of Things in order to enable your smart, connected products and services – and has been for more than 50 years.

Our products connect you to your assets, leveraging proven, standards-based sensor and communications technologies and open architectures to bring systems and processes into the future. We provide expert technical support and partner with customers to overcome IoT integration challenges with off-the-shelf and custom products tailored to meet your unique needs.

Our cellular devices are designed to ensure the quickest route to market based on your needs, programming capabilities, preferred use of resources and business focus, in order to deliver a faster return on investment and lower total cost of ownership.

Plus, our U.S. and global manufacturing operations give us the agility and flexibility to develop and manufacture high quality connected devices optimized for both performance and value.

Public or private, we've got your covered

MultiTech offers a variety of tools to connect your devices to carrier networks around the world for reliable LTE communications tailored to suit the bandwidth, cost and power requirements of your application today and well into the future.

For those who prefer complete control of their own private enterprise networks, we also have a suite of devices to access private, neutral host networks, and fixed wireless networks that are being deployed in a variety of industrial applications including factories, warehouses, and power plants as well as public applications like airports, stadiums, and hospitals. MultiTech is among the first to market FCC-approved CBRS devices for private OnGo networks in the U.S. and will support Private LTE as it becomes available around the world.

MultiTech Campus
Mounds View,
Minnesota U.S.A.

WHY MULTITECH?

DEVICE AND APPLICATION MANAGEMENT

MultiTech DeviceHQ® is a cloud-based tool set for managing the latest generation of MultiTech devices. It incorporates all the functionality of MultiTech Device Manager on which so many M2M and IoT applications already rely for remote monitoring, upgrades and configuration of entire device populations – whether one or 1 million. DeviceHQ takes remote device management and maintenance to a new level, by providing an application marketplace, allowing users to browse applications, or build their own, then easily deploy and customize them for remote devices from anywhere.
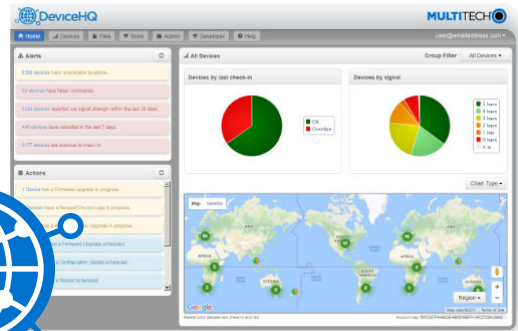
MPOWER™ EDGE INTELLIGENCE

mPower™ Edge Intelligence is MultiTech's embedded software offering used on programmable gateways and smart routers to deliver programmability, network flexibility, enhanced security and manageability for scalable Industrial Internet of Things (IIoT) solutions.

mPower simplifies integration with a variety of popular upstream IoT platforms to streamline edge-to-cloud data management and analytics. It also provides the programmability and processing capability to execute critical tasks at the edge of the network to reduce latency; control network and cloud services costs, and ensure core functionality – even in instances when network connectivity may not be available. mPower incorporates a host of security features including signed firmware validation, enhanced firewall and VPN settings, secure authentication and more.

YESTERDAY, TODAY AND TOMORROW

From the earliest analog systems, to the cellular heart of today's Industrial Internet of Things, to the latest low-power wireless technology and beyond, MultiTech has consistently connected businesses in ways previously unimaginable – and has been doing so for more than 50 years. We maintain long product lifecycles, help you manage technology transitions, and establish design plans as future technologies become available. We continue to grow and expand our capabilities, and our customers know they can count on us for the future of their business.

SUPPORT

We consider ourselves an extension of your team and we are absolutely committed to your success. We recognize that creating an integrated solution can be challenging, so we don't just provide expert technical support, we work in partnership with our customers throughout the integration process. If off-the-shelf products don't meet your needs, we offer customization services to create a solution optimized for your unique requirements.

MODEMS, ROUTERS AND GATEWAYS

Our family of modems, routers and gateways cover a diverse range of use cases. These products offer the quickest time to market, because they're virtually plug-and-play to get your IoT or M2M application communicating immediately. We've done all the design, certification and RF work for you. Simply choose the right product for your application, plug it in and you are connected to the world.

Choose a MultiTech device product when:

- Time to market is critical.
- Internal funding is limited and resources for a complete connectivity solution are required.
- High-value capital equipment in the field needs to be retrofit.
- Transition between proof of concept and production requires minimal effort.
- Risk reduction is a top priority.

MultiConnect® microCell USB Cellular Modems

MultiConnect® rCell Cellular Routers

MultiTech Conduit® 300 Gateways

MultiTech Conduit® Gateways

MultiConnect® Cell Cellular Modems

MultiConnect® CBRS Wi·Fi AP

MultiConnect® CBRS Wi-Fi AP is a Wi-Fi Access Point enabling one-to-many connectivity to families with more than one child and to multi-dwelling buildings using Chromebooks, notebooks, desktops and smart devices over a CBRS cellular OnGo network. The MultiConnect CBRS Wi-Fi AP is an end-user device for use on CBRS cellular networks operated by school districts, educational facilities, smart cities, hospitality providers and their managed service partners and provides secure, reliable, high-performance LTE-based Wi-Fi broadband coverage to students in their homes and in public places. This newest addition to the award-winning MultiTech portfolio of FCC-authorized CBRS solutions can be remotely provisioned and managed at scale using an auto configuration server (ACS) or DeviceHQ®, a tool set featuring secure configuration, over-the-air updates, operational performance metrics and CBRS connection management.

EMBEDDED M2M PRODUCTS

Build communication capabilities right in to your products with pre-approved and ready-to-integrate embedded products from MultiTech. Our embedded range of modems and systems on modules (SoM) are designed for those who want more control and flexibility in the development process. You'll need more engineering skills and resources compared to our device products, but you'll benefit from a reduced bill of materials cost.

Choose MultiTech embedded products when:

- An integrated solution is needed without the complications associated with certifications and wireless carrier approvals.
- It's time to reduce your bill of materials cost.
- Control and flexibility of design are critical.

MultiTech Dragonfly™ Nano Embedded Cellular Modems & SoMs
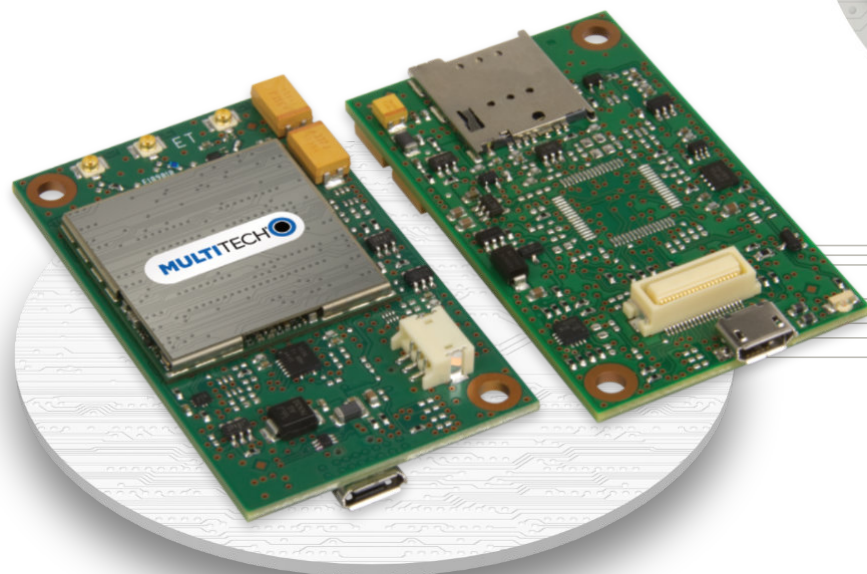
MultiTech Dragonfly™

The Dragonfly™ embedded cellular modems and SoMs 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. The 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.

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. This powerful suite of hardware and software products greatly reduces your time to market and makes your M2M/Internet of Things (IoT) device a reality today.

YOUR SPEED

When you are dealing with mission-critical applications,
the availability and reliability of your connections are critical – which is why
we offer a range of LTE devices to leverage existing LTE networks worldwide.

However, many IoT and M2M applications simply don't require the bandwidth of LTE Categories 4 and above. In situations when you are only sending a small amount of data, but can't afford latency, the global carrier community is working to deploy low-power, wide area (LPWA) network technologies including LTE Cat-M and NB-IoT. As always, MultiTech is in lock step with the carriers and prepared with a range of devices designed to leverage these new network technologies to provide the perfect fit for your application.

LTE PRODUCT REFERENCE GUIDE

		DEVICE PRODUCTS								EMBEDDED PRODUCTS		
		PROGRAMMABLE		NON-PROGRAMMABLE						PROGRAMMABLE		NON-PROG
		SMART		SMART		BRIDGE	BIT PIPE			SMART		BIT PIPE
		MultiTech Conduit® 300	MultiTech Conduit®	MultiConnect® rCell 100	MultiConnect® rCell 500	MultiConnect® eCell	MultiConnect® Cell	QuickCarrier® USB-D	MultiConnect® microCell	MultiTech Dragonfly™ Nano†	MultiTech Dragonfly™*†	SocketModem® Cell
	Base Part Number	MTCDT3AC	MTCDT	MTR	MTR5	MTE	MTC	MTD	MTCM/MTCM2	MTQN	MTQ	MTSMC
CELLULAR TECHNOLOGY	LTE Category 4	●	●	●	●	●	●		● EU ✱ US, AU		●	●
	LTE Category 1		● JP/AU						● US		●	●
	LTE Category M1			●			●	●		●	●	●
	NB-IoT			●						●	●	●
	OnGo/CBRS					● Cat 12			● Cat 6			
OTHER WIRELESS TECHNOLOGY	Wi-Fi	●	●	●	●							
	Bluetooth	●	●	●								
	LoRa	●	●									
	GPS/GNSS	●	●	●							●	●
	Antennas	External	External	External	External	External	External	Internal	External	External or Internal	External or Internal	External or Internal
SIM SLOTS	One	●	●	●		●	●	●	●	●	●	●
	Two				●							
INTERFACES	Ethernet	4-Port Switch	●	●	●	●						
	Serial RS232	●	●	●	●		●					
	Serial RS485	●	●		●							
	USB	●	●		●		●	●	●	●	●	●
	Power Method	POE or DC	DC	DC	DC	DC	USB	USB	USB	USB or DC	USB or DC	DC
	GPIO	●	●							●	●	
	UART									●	●	
	SPI									●	●	
	IC2									●	●	
COUNTRY or REGION	Global Capable**	●	✱	✱					✱		●	●
	Australia/NZ	●	●	●							●	
	Brazil	●	●	●								
	Europe	●	●	●	●	●	●		●	●	●	●
	India		●									
	Japan		●									
	Korea		●									
	Russia		●									
	South Africa		●	●								
	US/Canada		●	●		●	●	●	●	●	●	●

● Included feature   ✱ Planned   ✱✱ See product datasheets for country/region certifications   † Non-programmable/bit pipe models available

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