

MultiTech Conduit* AP harnesses the power of the LoRaWAN* protocol to provide in-building penetration and connectivity to thousands of IoT assets.

Easy to deploy, the Conduit AP extends LoRa* connectivity in commercial buildings like hotels, convention centers, offices and retail facilities providing coverage in difficult to reach areas cell tower or rooftop deployments may not penetrate.

The Conduit AP offers a development environment for software developers and IT professionals alike. mPower™ Edge Intelligence features an easy-to-use graphical interface set-up and includes a built-in LoRa Network Server and Packet Forwarder to connect locally clustered assets on a private LoRaWAN network directly to your choice of IoT data platforms. The Conduit AP extends complex processing to the edge to reduce upstream communication and operational costs. The Conduit AP provides Ethernet or optional 4G-LTE IP backhaul.

- Provide improved service level agreements for LoRa
- Affordable LoRa connectivity in or around commercial buildings
- Ethernet and 4G-LTE interfaces for primary or secondary WAN
- Quick & easy to deploy
- Carrier approved

FEATURES

- Ethernet RJ-45 10/100
 BaseT for IP backhaul
- Optional 4G-LTE IP backhaul
- LoRa internal antenna for 868 MHz ISM band
- Built-in LoRa Network Server and Packet Forwarder





Programmable embedded software provides enhanced security and enables task execution at the edge for reduced latency and cost optimization.

mPower™ Edge Intelligence is a new embedded software offering, building on its popular application enablement platform, to deliver programmability, network flexibility, enhanced security and manageability for scalable Industrial Internet of Things (IIoT) solutions.

mPower is the unification and evolution of well-established MultiTech smart router and gateway firmware platforms. In addition to ongoing support of the current feature-sets, gateway customers can enjoy the additional security features currently available on the MultiConnect* rCell 100 Series.

mPower simplifies integration with a variety of popular upstream IoT platforms to streamline edge-to-cloud data management and analytics, while also providing 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.

In response to evolving customer security requirements, mPower incorporates a host of new security features including signed firmware validation, enhanced firewall and VPN settings, secure authentication and more.

mPower software specifications can be found here.

Easily Deploy and Manage Assets Via DeviceHQ*

MultiTech DeviceHQ is the M2M industry's first IoT online application store to enable customers

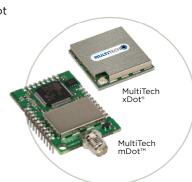


to easily deploy and scale applications to their connected devices. Drag-and-drop tools easily allow customers to create and manage applications for in-field assets. The DeviceHQ application store gives your business the power to innovate operations management and create value-added services.

CONNECTING THE "THINGS"

MultiTech mDot™& xDot®

MultiTech mDot and xDot are secure, regulatory-certified, Arm* Mbed** programmable, low-power RF modules, providing long-range, low bit rate IoT data connectivity to sensors and actuators.



The mDot and xDot are LoRaWAN compliant,

providing bi-directional data communication up to 10 miles line-of-sight and 2-3 miles in buildings, using the global sub-GHz ISM radio bands in North America, Europe, and the APAC regions.

The mDot was the first Arm Mbed platform listed on mbed.org that was deployment ready. The mDot supports applications written and compiled in the mbed online environment using developer friendly libraries. Decision making and control can be done at the edge, reducing the need to optimize RF performance and implement complex IoT middleware.

mDots and xDots bring intelligence, reduced complexity and a lower overall bill of material to the edge of the network while supporting a variety of interfaces to connect just about any battery-powered "thing".



Benefits

- "Low Touch" asset deployment reduces costs, complexity and time
- Easily scales to your network needs
- Browse and download a wide variety of custom applications tailored to your business needs
- Reduce truck-rolls using remote performance management and asset updates

HARDWARE SPECIFICATIONS

Models	MTCAP-L4E1-868	MTCAP-868	
Mobile Network Operator	European Network Operators	Non-Cellular	
Performance	4G-LTE Category 4		
Fallback	3G - HSPA+, 2G - GPRS	N/A	
Frequency Band (MHz)	4G: B3(1800), B7(2600), B20(800), B28A(700) 3G: B1(2100), B3(1800), B8(900) 2G: B3(1800), B8(900)		
Packet Data (LTE FDD)	Up to 150 Mbps downlink, Up to 50 Mbps uplink		
oRa Channel Plan	EU868		
Channel Capacity	8-channels	(Half Duplex)	
LoRa Power Output	24.6 dBm maximum output power before antenna		
nput Voltage	5 VDC 2.5A input provided by 100-240 VAC 50/60 Hz 0.4A external adaptor		
Processor & Memory		16-Bit Thumb instruction sets Data Cache • 256 MB Flash Memory K16M DDR RAM	
Connectors			
Power	2.5mm, 5 Volt power jack		
Ethernet	RJ45 Ethernet jack (10/100 port)		
SIM	3FF Micro SIM	None	
Antennas	No external antenna connections	(All antennas are internal to chassis)	
Physical Description			
Dimensions (L x W x H)	165 (6.5) x 135 (5.3) x 36 (1.4) mm (in)		
Weight	1.4 (3) kg (lb)		
Chassis Type	PC-ABS (polycarbonate-ABS)		
Environmental			
Operating Temperature	0°C to +70C°		
Storage Temperature	-40° to +85° C		
Relative Humidity	20% to 90%,	non-condensing	
Certifications			
EMC Compliance	EN 55032 Class B EN 301 489-3 V2.1.1 EN 301 489-1 V2.2.0 EN 301-489-52 V1.1.0	EN 55032 Class B EN 301 489-3 V2.1.1 EN 301 489-1 V2.2.0	
Radio Compliance	EN 300 220-2 V3.1.1 EN 300 328 V2.1.1 EN 301 511 V12.5.1 EN 301 908-1 V11.1.1 EN 301 902-2 V11.1.1 EN 301 908-13 V11.1.1 EN 62311	EN 300 220-2 V3.1.1 EN 300 328 V2.1.1 EN 62311	
Safety	IEC 60950-1 , IEC 62368-1		
Mobile Network Operator Approvals	GCF Certified Cell Module	N/A	
Quality	MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop, Random Vibration, Swept-Sine Vibration. IEC68-2-1: Cold Temp. IEC68-2-2: Dry Heat		

 $^{^{\}ast}$ Operating temperature excluding power supply. Power supply UL listed at 40° C.

ORDERING INFORMATION

MultiTech Conduit® AP 4G LTE Models

Model	Description	Region
MTCAP-L4E1-868-001A	LTE Cat 4 mPower Programmable Access Point w/EU/UK Accessory Kit (Europe)	Euro/GB

MultiTech Conduit® AP Ethernet-Only Models

Model	Description	Region
MTCAP-868-001A	Ethernet-Only mPower Programmable Access Point	Euro/GB
	w/FLI/LIV Accessory/Kit/Furance	

w/EU/UK Accessory Kit (Europe)

Accesory Kit Contents for all models include Access Point, AC power supply with regional-specific power blades, RJ45 Ethernet cable, mounting bracket, and Quick Start Guide.

RECOMMENDED ACCESSORIES

MultiTech mDot™

Model	Description	Region
MTDOT-868-X1-SMA	868 MHz X1 LoRa SMA	Euro
MTDOT-868-X1P-SMA	868 MHz X1 LoRa SMA w/Programming Header	Euro
MTDOT-868-X1-UFL	868 MHz X1 LoRa UFL	Euro
MTDOT-868-M1-UFL	868 MHz SMT LoRa UFL	Euro
MTDOT-868-M1-TRC	868 MHz SMT LoRa RF Pad	Euro

MultiTech xDot®

Model	Description	Region
MTXDOT-EU1-A00-1	868 MHz LoRa Module UFL/TRC (Single Pack)	EMEA

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



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