

MultiTech Conduit* IP67 Base Station is a ruggedized IoT gateway solution, specifically designed for outdoor LoRa* public or private network deployments. This highly scalable and certified IP67 solution is capable of resisting the harshest environmental factors including moisture, dust, wind, rain, snow and extreme heat, supporting LoRaWAN* applications in virtually any environment. The enhanced Conduit IP67 solution can support thousands of LoRaWAN certified end nodes, including the MultiTech mDot** and xDot**. This flexible solution provides durable, low-power, wide area connectivity in support of M2M and IoT applications for both LoRa service providers and individual enterprises wanting to expand their LoRa network coverage.

Designed for easy deployment, the solution includes a MultiTech

Conduit with a LoRa MultiTech mCard™, IP67 enclosure, LoRa antenna
to improve outdoor range and Ethernet or optional 4G-LTE backhaul.

It can be deployed as part of an existing telecommunications tower,
individual stand or wall mount.

*Represents ideal network configuration and equipment set up. Results vary depending on payload amount, transmission frequency, spreading factor used, as well as terrain, RF interference and obstruction type (e.g., metal, cement, etc.)

BENEFITS

- Greatly expands LoRa network coverage
- External antenna increases LoRa connectivity to remote assets
- Improved design enhancing thermal performance and easy external port access to SIM and USB connectors

FEATURES

- 14 dBm support for European region
- Certified for Europe 868 MHz ISM bands
- ISM band scanning for optimum LoRa performance
- Listen Before Talk operating protocol
- GNSS for location coordinate information

www.multitech.com/IP67



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

mPower™ Edge Intelligence embedded software delivers 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, 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.

mPower software specifications can be found **here**.

LENS* Embedded Network Server & Key Management Toolset for LoRaWAN* Networks

LENS is a hybrid LoRaWAN* network management platform that enables deployment and management of LoRaWAN networks at scale. Designed for private and enterprise networks, LENS provides a site-by-site user account and centralized management for LoRa* end devices, as well as configuration and control of Conduit* gateways. LENS has the capability to assign unique access rights to individual users, add gateways and LoRa end nodes in bulk, or create separate organizations and network segmentation to support different IoT use cases or applications.





Cloud-based Application Store and IoT Device Management

MultiTech DeviceHQ* is 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 them to and customize them for remote devices from anywhere.



SPECIFICATIONS

Models	MTCDTIP-L4E1	MTCDTIP-868	
Mobile Network Operator	European Network Operators		
Cellular Performance	4G - LTE Category 4		
Cellular Fallback	3G - HSPA+, 2G - GPRS	non-Cellular	
Frequency Band (MHz)	4G: B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700)		
	3G: B1(2100), B3(1800), B8(900)		
	2G: B3(1800), B8(900)		
Packet Data (LTE FDD)	Up to 150 Mbps peak downlink Up to 50 Mbps peak uplink		
Input Voltage	Ethernet Input Power: 37 - 57 VDC. POE Standard: IEEE 802.3at, provided by PSE injector with power rating of 25W or greater		
Processor & Memory	ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets • 400 MHz • 16K Data Cache • 16K Instruction Cache • 128X16 MB DDR RAM • 256 MB Flash Memory		
Wi-Fi/Bluetooth (-267 models)	Wi-Fi: 802.11abng (2.4 & 5 GHz) / Bluetooth: Classic 4.1 and BLE		
GPS/GNSS	GNSS for LoRa Packet Time Stamping Concurrent GNSS connections: 3 GNSS Systems Supported: (default: concurrent GPS/QZSS/SBAS and GLONASS)		
LEDs*	PR (Power), ST (Status), L1, L2		
LoRa Specifications			
LoRa Frequency Band	868 MHz		
LoRa Channel Plan	EU868 (EU863 - 870)		
Channel Capacity	8-channels (half-duplex)		
LoRa Maximum Output Power	Maximum EIRP: 14 dBm - 27 dBm**		
Connectors			
E-NET	RJ45 Ethernet jack (10/100 port) (PoE)		
USB HOST*	USB 2.0 Type A connector		
SIM*	3FF Micro SIM	None	
Antennas	Cellular, LoRa, GPS: N-Type Female		
Physical Description			
Dimensions (LxWxH)	262 mm x 91 mm x 257 mm		
Weight	2.75 kg		
Chassis Type	IP67 Rated, Aluminum		
Environmental			
Operating Temperature	-40° to +70° C		
Storage Temperature	-40° to	+85° C	
Certifications			
EMC Compliance	EN 55023 Class A EN 301 489-3 V2.1.1 EN 301 489-1 V2.2.0 EN 301-489-52 V1.1.0		
Radio Compliance	EN 300 220-1 V3.1.1 EN 300 220-2 V3.1.1 EN 300 328 V2.2.2 EN 301 511 V9.0.2 EN 301 893 V2.1.1 EN 301 908-1 V11.1.1 EN 301 902-2 V11.1.1 EN 301 908-13 V11.1.1 EN 62311-2008		
Safety	IEC 60950-1 IEC 62368-1		
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		
Warranty	2-Years - www.multitech.com/legal/warranty		

 $^{^{*}}$ SIM, LEDs, and USB port accessible under IP67-rated bottom cap cover ** Maximum EIRP is 14 dBm for most of the band, except 27 dBm at 869.4 – 869.65

