

MultiTech Conduit' IP67 200 Series 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 an 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.

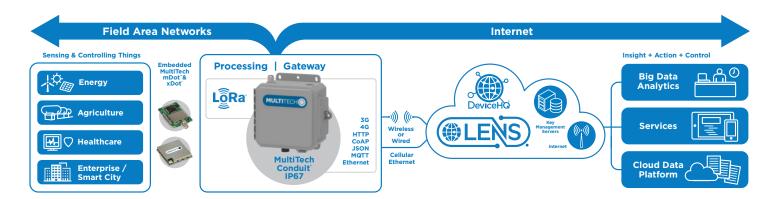
*Represents ideal network configuration and equipment set up. Results vary depending on payload amount, transmission frequency, spreading factor used, as well as terrain, RF interference and obstruction type (e.g., metal, cement, etc.)

- 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

FFATURES

- ISM band scanning for optimum LoRa performance
- · GNSS for location coordinate information
- Certified for Europe 868 MHz ISM bands

multitech.com/ip67-200





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**.

O DeviceHQ

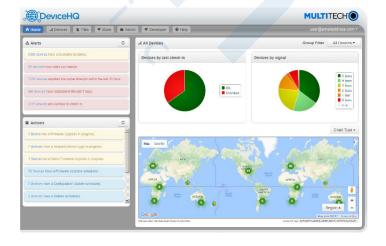
Cloud-based Application Store and IoT Device Management

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.

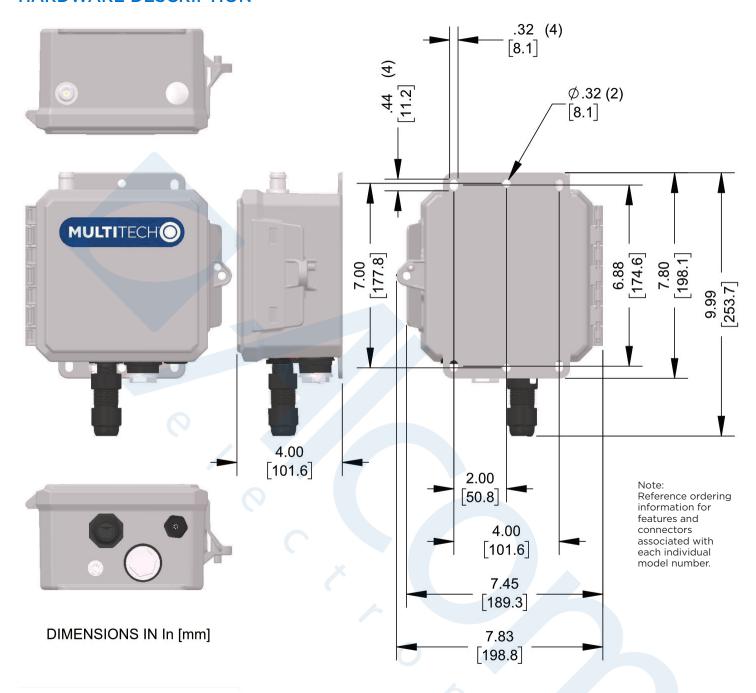
LENS* Embedded Network Server & Key Management Toolset for LoRaWAN* Networks

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.





HARDWARE DESCRIPTION



HARDWARE OVERVIEW

Connectors						
Interface	Label	Connector Type				
SIM Card	SIM	3FF Micro SIM				
USB Host		Type A USB Connector				
Ethernet Port	None	RJ-45 Jack				
Ground Lug	None	7/16 HEX 1/4 x 20 Stainless Steel				
Vent Valve		S-Flange				
Antenna Connectors						
Interface	Label	Connector Type				
LoRa Antenna	1	N-Type Antenna Connector				
Cellular Antenna (primary)						
GNSS Antenna	None	Internal antenna. No external interface				
Cellular Antenna (diversity)						

HARDWARE SPECIFICATIONS

Feature		Description	
CPU Module		sor with 32-Bit ARM & 16-Bit Thumb in 256 MB Flash Memory • 16K Instruction	
MAND Dealthand On the sea	Ethernet	10/100 Base T	All Models
WAN Backhaul Options	Cellular	LTE Category 4	-LNA3 models only
		GNSS for LoRa Packet Time Stamping	
GNSS (location, time stamping)	CNSS Systems Sympo	Concurrent GNSS connections: 3 orted: (default: concurrent GPS/QZSS/5	SDAC and CLONASC)
	GN33 Systems Suppo	GNSS antenna: Internal to chassis	SDAS and GLONASS)
LEDs		STATUS, LORA, CELL	
nput Power	Ethernet Input Power: 37 - 57	VDC provided by PSE injector with po	ower rating of 25W or greater
Power-over-Ethernet (PoE)		PoE Standard: IEEE 802.3at	
Power Draw	See Hardw	vare Guide for current draw at specified	d voltages.
Physical Description			
Dimensions (L x W x H)	6" x 6" x 4"	(152.4 mm x 152.4 mm x 101.6 mm) (se	ee diagram)
Weight		Approximately 3 lbs (1.4 kg)	
Chassis Type		IP67-Rated composite	
Mounting Options	Wall mount built into	o chassis (see diagram) / Pole mount (accessory required)
Environmental			
Operating Temperature		-40° C to +70° C	
Storage Temperature		-40° C to +85° C	
Certifications and Approvals			
EMC Compliance		OHS Directive 2011/65/EU EN 50581:20 O Directive 2014/53/EU. Article 3.1b (EN EN 301 489-1 V2.1.1 (General)	
Radio Certifications	REC	Directive 2014/53/EU. Article 3.2 (Rad	dio)
Quality		B10G: High Temp, Low Temp, Random p & Handling Drop, Random Vibration, IEC68-2-1: Cold Temp. IEC68-2-2: Dry Heat	
Safety	EN 60950-	Itage Directive (LVD) 2014/35/EU Artic IEC 60950-1 2nd Edition + Am2:2013 1:2006 + A11:2009 + A1:2010 + A12:201 cond Edition), EN 62368-1:2014 + AC:2 EN 62311:2008 (MPE/RD Exposure)	I + A2:2013
Warranty	2-Ye	ears - www.multitech.com/legal/warra	anty

LORAWAN WAN SPECIFICATIONS

Feature	Description						
	Frequency Band	Channel Plan	Power Output*	RX Range	RX Range TX Range		
LoRa Module	868 MHz	EU868	14 dBm	863 - 873 MHz	863 - 873 MHz		
	*	Maximum outpu	t power before a	ntenna / 1x8 chai	nnel / Half-Duple:	<	
	ROHS Directive 2011/65/EU EN 50581:2012						
EMC Compliance EN 301 489-1 V2.1.1 (General	RED Directive 2014/53/EU. Article 3.1b (EMC)						
	V2.1.1 (General)						
	EN 301 489-3 V2.1.1 (LoRa/SRD)						
Radio Compliance	EN 300 220-2 V3.1.1 (LoRa/ISM Radio)						

CELLULAR WAN SPECIFICATIONS

Models	MTCDTIP2-L4E1				
Cellular Performance	4G - LTE Category 4				
Cellular Fallback	3G - HSPA+, 2G - GPRS				
	4G: B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700)				
Frequency Band (MHz)	3G: B1(2100), B3(1800), B8(900)				
	2G: B3(1800), B8(900)				
De aliat Data (LTE EDD)	Up to 150 Mbps downlink,				
Packet Data (LTE FDD)	Up to 50 Mbps uplink				
SIM Card	(1) 3FF Micro SIM				
Antenna Connector	Primary and diversity: Internal to chassis				
Mobile Network Operator (MNO) Approvals	GCF Certified Cell Module. European Network Operators				
EMC Compliance	CE Mark, IEC 60950-1				
	Draft EN 301 489-52 V1.1.0 (Cellular)				
Radio Compliance	EN 301 511 V12.5.1 (GSM)				
	EN 301 908-1 V11.1.1 (IMT Cellular)				

Product specifications are subject to change without notice.

MultiTech Conduit IP67 200 Series Base Station with GNSS

Model	Description	Region	Ethe	Cellu	Inter nal LoRa	EXTE LoRal	GNS S S	Acce ssor v Kit
Ethernet Only Models								
MTCDTIP2-EN-B11EKP-D1M	Ethernet only mPower Programmable Base Station, 8-channel, 868 MHz with internal LoRa antenna	Europe	•		•		•	None
MTCDTIP2-EN-B11EKP-L1M	Ethernet only mPower Programmable Base Station, 8-channel, 868 MHz with external LoRa antenna	Europe	•			•	•	•
_TE Category 4 Models								
MTCDTIP2-L4E1-B11EKP-D1M	LTE Cat 4 mPower Programmable Base Station, 8-channel, 868 MHz with internal LoRa antenna, internal cellular antenna	Europe	*	•	•		•	None
MTCDTIP2-L4E1-B11EKP-L1M	LTE Cat 4 mPower Programmable Base Station, 8-channel, 868 MHz with external LoRa antenna, internal cellular antenna	Europe		•		•		

Accessory Kit includes LoRa Antenna.

RECOMMENDED ACCESSORIES

MultiTech Conduit® IP67 200 Series Base Station

Model	Description	Region
PS-56V-POE-EU-1	Single Port 30W Power over Ethernet Transformer (Class A) with European Power Cord (1 Pack)	Europe
PS-56V-POE-EU-5	Single Port 30W Power over Ethernet Transformer (Class A) with European Power Cord (5 Pack)	Europe
PS-56V-POE-GB-1	Single Port 30W Power over Ethernet Transformer (Class A) with European Power Cord (1 Pack)	GB/IE
PS-56V-POE-GB-5	Single Port 30W Power over Ethernet Transformer (Class A) with European Power Cord (5 Pack)	GB/IE
MTKIT-IP67-MF	Conduit IP67 Accessory Kit	Global
	(includes antenna mounting bracket, coax cable, two clamps and lightning arrestor)	
LGT-ARRST-1	Conduit IP67 Base Station Lightning Arrestor (1 Pack)	Global
LGT-ARRST-5	Conduit IP67 Base Station Lightning Arrestor (5 Pack)	Global
CA-NTYPE-MF-1	Outdoor Coax Cable, N Type Male & Female connectors, 5 feet (1 Pack)	Global
CA-NTYPE-MF-5	Outdoor Coax Cable, N Type Male & Female connectors, 5 feet (5 Pack)	Global
MB-ANT-IP67-1	Conduit IP67 Antenna Mounting Bracket, Mounts One Antenna (1 Pack)	Global
MB-ANT-IP67-5	Conduit IP67 Antenna Mounting Bracket, Mounts 1 Antenna (5 Pack)	Global
AN868-915A-1-IP67	IP67 LoRa Antenna, 15.3" (4.5 dBi) (1 Pack)	Global
AN868-915A-5-IP67	IP67 LoRa Antenna, 15.3" (4.5 dBi) (5 Pack)	Global
MTKIT-POLEMOUNT-2	Pole Mount Kit, for 2 inch diameter poles (for MTCDTIP2-xx models)	Global
MTKIT-POLEMOUNT-3	Pole Mount Kit, for 3 inch diameter poles (for MTCDTIP2-xx models)	Global
MTKIT-POLEMOUNT-4	Pole Mount Kit, for 4 inch diameter poles (for MTCDTIP2-xx models)	Global
MTKIT-POLEMOUNT-10-12	Pole Mount Kit, for 10 - 12 inch diameter (for MTCDTIP2-xx models)	Global
Go to www.multitech.com f	or 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.

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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