

MultiTech Conduit[®] IP67 Base Station

IP67 Conduit for Outdoor LoRa[®] Deployments
Global Models



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 an updated 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

- Global MNO and LoRaWAN support
- 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

- ISM band scanning for optimum LoRa performance
- Listen Before Talk operating protocol
- GNSS for location coordinate information

mPower™

EDGE INTELLIGENCE

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](#).

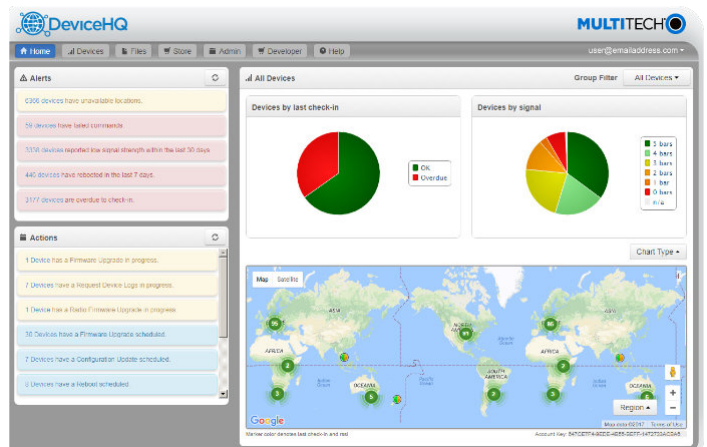
LENS® Embedded by Network Server & Key Management Toolset for LoRaWAN® Networks

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.



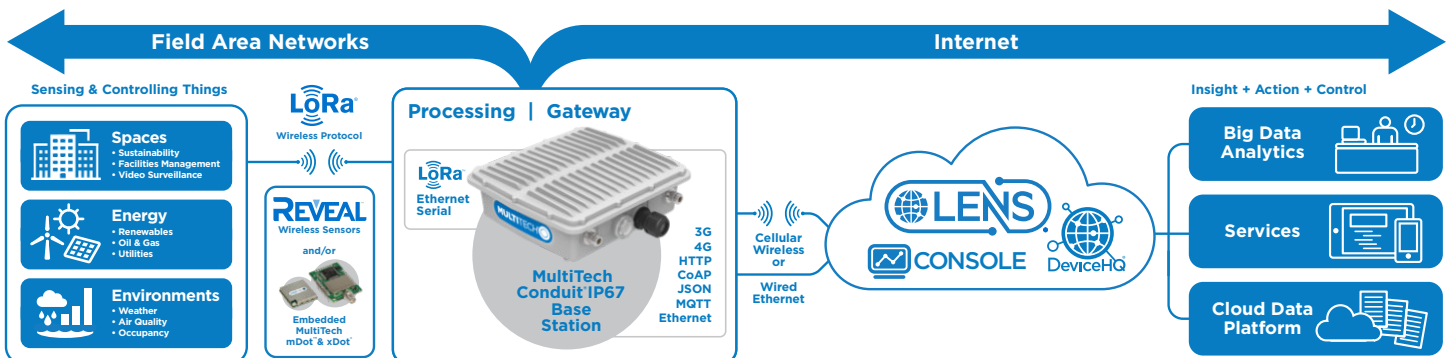
SPECIFICATIONS

Models	MTCDTIP-L4G1			
Models	-266A Models		-267A Models	
Models	868	915	868	915
Mobile Network Operator	European Network Operators	AT&T / Verizon / T-Mobile	European Network Operators	AT&T / Verizon / T-Mobile
Cellular Radio	MTSMC-L4G1			
Cellular Performance	4G - LTE Category 4			
Cellular Fallback	3G - HSPA +, 2G - GPRS			
Frequency Band (MHz)	4G FDD: B1(2100), B2(1900), B3(1800), B4(AWS1700), B5(850), B7(2600), B8(900), B12/B13(700), B18(850), B19(850), B20(900), B25(1900), B26(850), B28(700) 4G TDD: B33(2600), B39(1900), B40(2300), B41(2500) 3G: B1(2100), B2(1900), B4(AWS1700), B5(850), B6(800), B8(900), B19(850) 2G: B2(1900), B3(1800), B5(850), B8(900)			
Packet Data (LTE)	4G-FDD: Up to 150 Mbps peak downlink. Up to 50 Mbps peak uplink 4G-TDD: Up to 130 Mbps peak downlink. Up to 30 Mbps peak uplink			
Input Voltage	9 VDC 1.7A input provided to 100 - 240 VAC 50/60 Hz external adaptor or fused DC Power Cable			
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	N/A		Wi-Fi: 802.11abgn (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, user-programmable), L1 (user-defined), L2: (user-defined)			
LoRa Specifications				
LoRa Frequency Band	868 MHz	915 MHz	868 MHz	915 MHz
LoRa Channel Plan	EU868 IN865	AU915 / US915 AS923 / KR920	EU868 IN865	AU915 / US915 AS923 / KR920
Channel Capacity	8-channels (half-duplex)			
LoRa Maximum Output Power before Antenna	14 dBm - 27 dBm*	25.1 dBm	14 dBm - 27 dBm*	25.1 dBm
Connectors				
Ethernet	RJ45 Ethernet jack (10/100 port) (PoE)			
USB HOST*	USB 2.0 Type A connector			
SIM*	3FF Micro SIM			
Antennas	Cellular, GPS, LoRa: female SMA / LoRa: reverse polarity female SMA			
Physical Description				
Dimensions (LxWxH)	10.31" x 3.58" x 10.12" (262 mm x 91 mm x 257 mm)			
Physical Weight	6.06 lbs (2.75 kg)			
Chassis Type	IP67-Rated, Aluminum			
Environmental				
Operating Temperature	-40° to +70° C			
Storage Temperature	-40° to +85° C			
Certifications				
EMC Compliance	RED, EN 55032 Class A, EN 301 489-3 V2.1.1, EN 301 489-1 V2.2.0, EN 301-489-52 V1.1.0	US: FCC Part 15 Class A Canada: ICES-003 Class A Australia: CISPR 32	RED, EN 55032 Class A, EN 301 489-3 V2.1.1, EN 301 489-1 V2.2.0, EN 301-489-52 V1.1.0	US: FCC Part 15 Class A Canada: ICES-003 Class A Australia: CISPR 32
Radio Compliance	EN 300 220-1 V3.1.1, EN 300 220-2 V3.1.1, EN 300 328 V2.1.1, 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	US: FCC Part 22, 24, 27 Canada: ICSED Australia: AS/NZS 4268:2012 + A1:2013 MPE Standard 2014	EN 300 220-1 V3.1.1, EN 300 220-2 V3.1.1, EN 300 328 V2.1.1, 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	US: FCC Part 22, 24, 27 Canada: ICSED Australia: AS/NZS 4268:2012 + A1:2013 MPE Standard 2014
Safety	IEC 60950-1 / IEC 62368-1	UL/cUL 60950-1 / UL/cUL 62368-1	IEC 60950-1 / IEC 62368-1	UL/cUL 60950-1 / UL/cUL 62368-1
Regulatory Approvals (Approvals Pending) Contact MultiTech for details	Anatel (Brazil), IFETEL (Mexico), SRR/CCC/NAL (China), KC (South Korea), NCC (Taiwan, China), JATE/TELEC (Japan), FAC (Russia), NBTC (Thailand), IMDA (Singapore), ICASA (South Africa)			
Mobile Network Operator Approvals	GCF, European Network Operators	US: PTCRB, AT&T, Verizon*** Australia: RCM, Optus, Telstra, Vodafone	GCF, European Network Operators	US: PTCRB, AT&T, Verizon** Australia: RCM, Optus, Telstra, Vodafone
Mobile Network Operator (Approvals Pending) Contact MultiTech for details	-	US: T-Mobile, US Cellular Canada: Rogers, Telus,	-	US: T-Mobile, US Cellular Canada: Rogers, Telus,
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			

* Maximum EIRP is 14 dBm for most of the band, except 27 dBm at 869.4-869.5

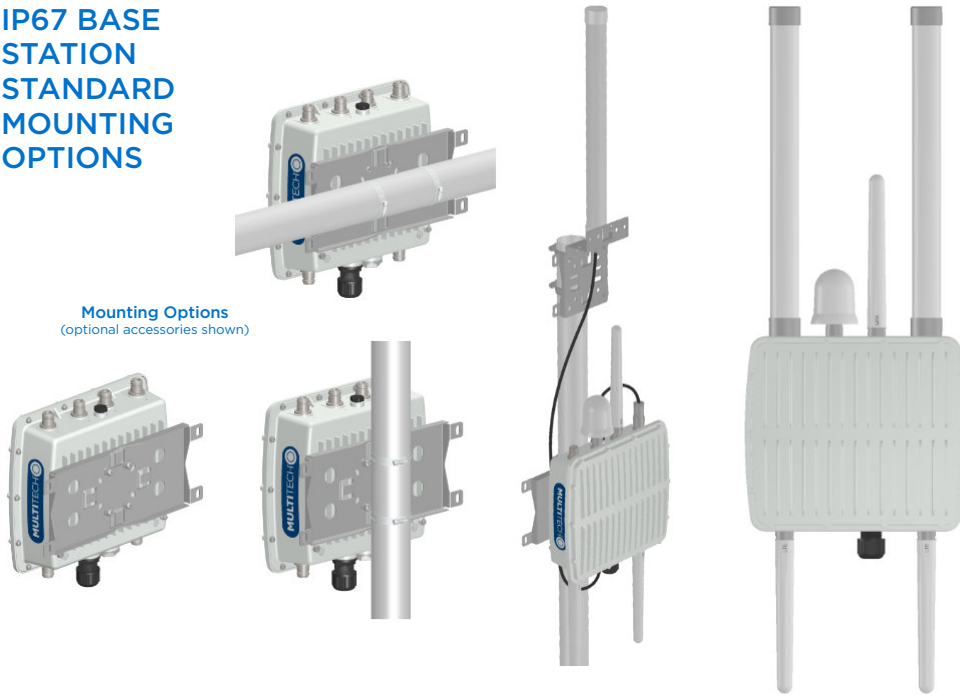
** SIM, LEDs, and USB port accessible under IP67-rated bottom cap cover

*** MTCMCL4G1 is PTCRB, AT&T, and Verizon approved



IP67 BASE STATION STANDARD MOUNTING OPTIONS

Mounting Options (optional accessories shown)



ORDERING INFORMATION

MultiTech Conduit® IP67 Base Station with Wi-Fi/BT/BLE Support

Model	Description	Region
MTCDTIP-L4G1-267A-868.R3	LTE Cat 4 mPower Conduit IP67 Base Station 8-channel, 868 MHz, w/ GNSS+Wi-Fi/BT with MTAC-003E00 and Accessory Kit	Global
MTCDTIP-L4G1-267A-915.R3	LTE Cat 4 mPower Conduit IP67 Base Station 8-channel, 915 MHz, w/ GNSS+Wi-Fi/BT with MTAC-003U00 and Accessory Kit	Global

Accessory Kit Includes: Mounting bracket kit, 2 LoRa antennas, 2 cellular antennas, GNSS antenna, Wi-Fi/BT antenna

MultiTech Conduit® IP67 Base Station

Model	Description	Region
MTCDTIP-L4G1-266A-868.R3	LTE Cat 4 mPower Conduit IP67 Base Station 8-channel, 868 MHz, w/ GNSS with MTAC-003E00 and Accessory Kit	Global
MTCDTIP-L4G1-266A-915.R3	LTE Cat 4 mPower Conduit IP67 Base Station 8-channel, 915 MHz, w/ GNSS with MTAC-003U00 and Accessory Kit	Global

Accessory Kit Includes: Mounting bracket kit, 2 LoRa antennas, 2 cellular antennas, GNSS antenna

RECOMMENDED ACCESSORIES

Developer Kit & Accessories

Model	Description	Region
MTKIT-IP67-MF	IP67 Accessory Kit w/Mounting Bracket, 5' Coax Cable N Type, Male/Female Connectors & Lightning Arrestor	Global
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
ANLTE5-1-IP67	IP67 LTE Antenna, 7" (3.5 dBi) (1 Pack)	Global
ANLTE5-5-IP67	IP67 LTE Antenna, 7" (3.5 dBi) (5 Pack)	Global

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.

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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