

# MultiTech Conduit<sup>®</sup> IP67 Base Station

IP67 Conduit for Outdoor LoRa<sup>®</sup> Deployments  
EU868 Models with GNSS



**MultiTech Conduit<sup>®</sup> IP67 Base Station** is a ruggedized IoT gateway solution, specifically designed for outdoor LoRa<sup>®</sup> 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<sup>®</sup> applications in virtually any environment. The enhanced Conduit IP67 solution can support thousands of LoRaWAN certified end nodes, including the MultiTech mDot<sup>™</sup>\* and xDot<sup>™</sup>\*. 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<sup>™</sup>, IP67 enclosure, LoRa antenna to improve outdoor range and Ethernet 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

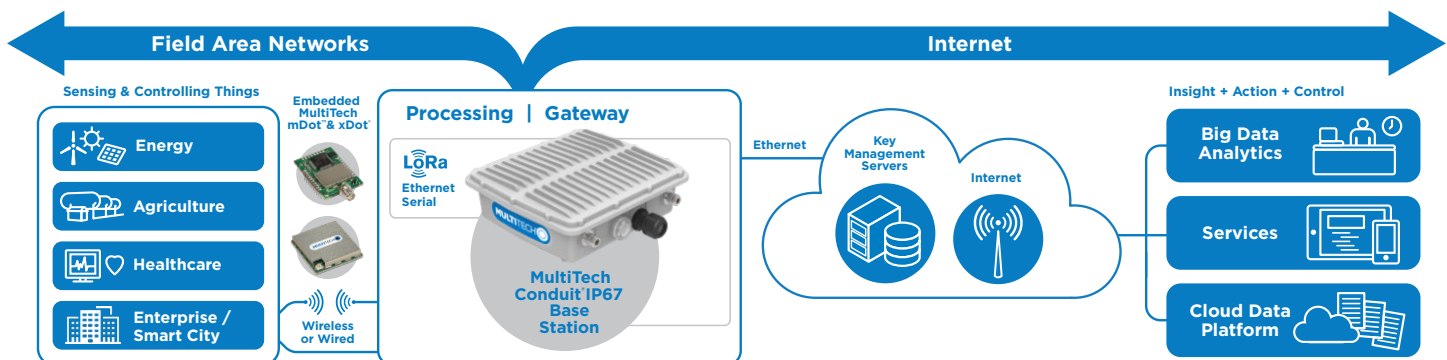
## FEATURES

- 27 dBm support for European region
- Certified for 868 MHz ISM bands
- ISM band scanning for optimum LoRa performance
- GNSS for location coordinate information

## SPECIFICATIONS

Models	MTCDTIP-868
Input Voltage	Ethernet Input Power: 37 - 57 VDC. 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
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
LoRa Channel Plan	EU868
Channel Capacity	8-channels (half-duplex)
LoRa Power Output	27 dBm maximum output power before antenna
Connectors	
E-NET	RJ45 Ethernet jack (10/100 port) (POE)
USB HOST*	USB 2.0 Type A connector
SIM*	None
Antennas	LoRa: N Male / GPS: N-Plug
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 B   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 V2.1.1   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
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 - <a href="http://www.multitech.com/legal/warranty">www.multitech.com/legal/warranty</a>

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

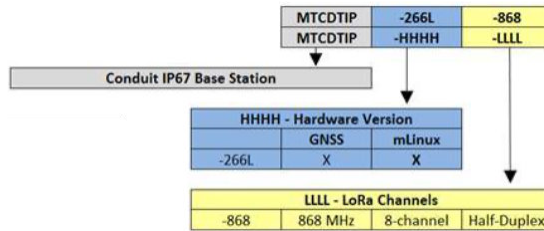


# IP67 BASE STATION STANDARD MOUNTING OPTIONS

Mounting Options (optional accessories shown)



## MODEL NUMBER SCHEMA



## ORDERING INFORMATION

### MultiTech Conduit® IP67 Base Station

Model	Description	Region
MTCDTIP-266L-868	Ethernet only mLinux Conduit IP67 Base Station 8-channel, 868 MHz, w/ GNSS and Accessory Kit (EMEA) - Accessory Kit: Mounting bracket kit, 1 LoRa antenna, 1 GNSS antenna	EMEA

## RECOMMENDED ACCESSORIES

### MultiTech mDot™

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

### MultiTech xDot®

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

### Developer Kit & Accessories

Model	Description	Region
PS-56V-POE-EU-1	Single Port 30W Power over Ethernet Transformer with European Power Cord (1 Pack)	Europe
PS-56V-POE-EU-5	Single Port 30W Power over Ethernet Transformer with European Power Cord (5 Pack)	Europe
PS-56V-POE-GB-1	Single Port 30W Power over Ethernet Transformer with UK Power Cord (1 Pack)	Europe
PS-56V-POE-GB-5	Single Port 30W Power over Ethernet Transformer with UK Power Cord (5 Pack)	Europe
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

Go to [www.multitech.com](http://www.multitech.com) for detailed product model numbers.

Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

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## 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](http://www.multitech.com/support.go)

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