

Worldwide Product Announcement

MultiTech Conduit® AP 300 Series Access Point

New MTCAP3 Models Available:

- Improved processor and memory
- Updated LoRaWAN transceiver
- LTE Category 4 cellular radio



Date: July 12, 2023

I. Summary

MultiTech announces the next generation of Conduit® AP Access Points. The Conduit AP 300 Series Access Point (MTCAP3 models) build upon a new processor and improved memory as well as use the latest LoRaWAN transceiver for improved network and end-device battery performance.

MultiTech Conduit® AP 300 Series Access Point featuring the mPower™ Edge Intelligence operating system serves as a gateway or access point that enables connectivity between LoRaWAN® wireless IoT devices and the network or cloud infrastructure. The Conduit AP Access Point offers various wide-area-network communication options, including wired and wireless interfaces, allowing flexibility in connectivity. It supports the LoRaWAN protocol in addition to Ethernet and cellular connectivity options, depending on the specific model and configuration.

The Conduit AP is designed for indoor use in industrial applications such as smart buildings, retail, agriculture, and other deployments where reliability and secure long range data communication is essential. The device acts as a gateway between the LoRaWAN end IoT devices and the wider network, facilitating data transmission and enabling remote management and monitoring of connected devices.

Security is a crucial aspect of IoT deployments, and the Conduit AP Access Point provides built-in hardware security features to protect data and devices. mPower includes features such as encryption, authentication mechanisms, firewall capabilities, and secure protocols to safeguard against unauthorized access or data breaches.

The MultiTech Conduit AP Access Point serves as a versatile and reliable LoRaWAN gateway for IoT deployments, enabling seamless connectivity, secure data transmission, and efficient management of connected devices.

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II. Suggested Action Plan

To help facilitate the launch of the new MTCAP3 Conduit AP 300 Series Access Points, we recommend the following actions be taken:

- Forward this announcement to others within your organization who are actively involved in the sale or support of programmable gateways and access points.
- Ensure that the new ordering part numbers, descriptions, and prices are loaded in your pricing system. Update your website, quoting tools, and other sales tools.
- Place initial stocking orders for the new ordering part numbers.
- Notify existing LoRaWAN customers that a new model is available and suggest they evaluate this new capability with their custom application.

III. Product Description

The Conduit AP is an indoor access point, ideal for commercial environments (e.g., hotels, offices, retail facilities) to deepen LoRa® coverage in difficult to reach places where cell tower or rooftop deployments may not perform as well.

The Conduit AP access point is part of the MultiTech Conduit product portfolio, the industry's most configurable, manageable, and scalable communications gateways for industrial IoT applications. Network engineers can remotely configure and optimize their Conduit performance through DeviceHQ®, the world's first IoT Application Store and Device Management platform.

The award-winning Conduit series comes in three variants designed to address specific IoT gateway use cases:

- **Conduit:** Indoor industrial gateway, ideal for environments that require metal casing for protection against particles and debris and require an industrial temperature range.
- **Conduit IP67 Base Station:** Outdoor IP67-rated gateway ideal suited for performing in harsh environments such as rain, snow, extreme heat, and high winds.
- **Conduit AP Access Point:** Indoor access point ideal for commercial environments (e.g., hotels, offices, retail facilities) to deepen LoRa coverage in difficult to reach places where cell tower or rooftop deployments may not perform as well.

IV. Key Dates

All ordering part numbers included in this announcement are now available for shipment from MultiTech.

V. New Ordering Part Numbers

MultiTech announces new ordering part numbers to our Conduit AP product family:

New Ordering Part Number	Description	Region
Conduit® AP 300 Series Access Point – Ethernet only Models		
MTCAP3-EN-A23UEA-LWM	Ethernet-only mPower Programmable Access Point, 8-channel, 915 MHz w/external LoRa antenna and Accessory Kit	Global
MTCAP3-EN-A23UEA-DWM	Ethernet-only mPower Programmable Access Point, 8-channel, 915 MHz w/internal LoRa antenna and Accessory Kit	Global
MTCAP3-EN-A23EEA-LEM	Ethernet-only mPower Programmable Access Point, 8-channel, 868 MHz w/external LoRa antenna and Accessory Kit	Europe United Kingdom
MTCAP3-EN-A23EEA-DEM	Ethernet-only mPower Programmable Access Point, 8-channel, 868 MHz w/internal LoRa antenna and Accessory Kit	Europe United Kingdom
Conduit® AP 300 Series Access Point – Cellular/Ethernet Models		
MTCAP3-LNA7D-A23UEA-LUM	LTE Category 4 mPower Programmable Access Point, 8-channel, 915 MHz w/external LoRa antenna and Accessory Kit (AT&T, Verizon)	North America
MTCAP3-LNA7D-A23UEA-DUM	LTE Category 4 mPower Programmable Access Point, 8-channel, 915 MHz w/internal LoRa antenna and Accessory Kit (AT&T, Verizon)	North America
MTCAP3-LEU7-A23EEA-LEM	LTE Category 4 mPower Programmable Access Point, 8-channel, 868 MHz w/external LoRa antenna and Accessory Kit (Europe)	Europe United Kingdom
MTCAP3-LEU7-A23EEA-DEM	LTE Category 4 mPower Programmable Access Point, 8-channel, 868 MHz w/internal LoRa antenna and Accessory Kit (Europe)	Europe United Kingdom

Accessory Kits Include: 5 VDC power supply, region-specific power blades, Ethernet cable, mounting bracket, and quick start guide. External LoRa antenna is available on select models only.

Product specifications are subject to change without notice.

MTCAP3 models are encryption items. U.S. Export Administration Regulations have special restrictions on the export of encryption items; please refer to these regulations. Any export of commodities, technology, or software must be exported from the United States in accordance with the Export Administration Regulations. Export or diversion contrary to U.S. law is prohibited.

VI. Cross Reference

The MTCAP3 is a direct replacement for the following MTCAP ordering part numbers:

MTCAP Ordering Part Number	New - MTCAP3 Ordering Part Number	Description
Conduit® AP Access Point – Ethernet only Models		
MTCAP-915-041A	MTCAP3-EN-A23UEA-LWM	Ethernet-only mPower Programmable Access Point, 8-channel, 915 MHz w/external LoRa antenna and Accessory Kit
MTCAP-915-001A	MTCAP3-EN-A23UEA-DWM	Ethernet-only mPower Programmable Access Point, 8-channel, 915 MHz w/internal LoRa antenna and Accessory Kit
MTCAP-868-041A	MTCAP3-EN-A23EEA-LEM	Ethernet-only mPower Programmable Access Point, 8-channel, 868 MHz w/external LoRa antenna and Accessory Kit
MTCAP-868-001A	MTCAP3-EN-A23EEA-DEM	Ethernet-only mPower Programmable Access Point, 8-channel, 868 MHz w/internal LoRa antenna and Accessory Kit
Conduit® AP Access Point – Cellular/Ethernet Models		
MTCAP-LNA3-915-041A	MTCAP3-LNA7D-A23UEA-LUM	LTE Category 4 mPower Programmable Access Point, 8-channel, 915 MHz w/external LoRa antenna and Accessory Kit (AT&T, Verizon)
MTCAP-LNA3-915-001A	MTCAP3-LNA7D-A23UEA-DUM	LTE Category 4 mPower Programmable Access Point, 8-channel, 915 MHz w/internal LoRa antenna and Accessory Kit (AT&T, Verizon)
MTCAP-L4E1-868-041A	MTCAP3-LEU7-A23EEA-LEM	LTE Category 4 mPower Programmable Access Point, 8-channel, 868 MHz w/external LoRa antenna and Accessory Kit (Europe)
MTCAP-L4E1-868-001A	MTCAP3-LEU7-A23EEA-DEM	LTE Category 4 mPower Programmable Access Point, 8-channel, 868 MHz w/internal LoRa antenna and Accessory Kit (Europe)

Product specifications are subject to change without notice.

VII. Product Comparison

The new MTCAP3 models are comparable to the current MTCAP models with improvements in three primary areas:

- Processor and memory
- LoRa technology
- Cellular technology

	MTCAP3 Models	MTCAP Models
Processor/Memory	Cortex A7 processor 512 KB RAM 512 KB Flash	ARM9 processor 256 MB RAM 256 MB Flash
LoRa Transceiver	SX1303 processor SX1250 transceiver	SX1301 processor SX1257 transceiver
Spreading Factors	5,6,7,8,9,10,11,12	7,8,9,10,11,12
Ethernet Data Backhaul	10/100 Mbps	10/100 Mbps
Cellular Data Backhaul (optional)	LTE Cat 4 – North America LTE Cat 4 – Europe, UK	LTE Cat 1 – North America LTE Cat 4 – Europe, UK
Operating System	mPower 6.3.0 (shipping)	mPower 6.0.1 (shipping)
NodeRED Support	Supported Customer Download	DeviceHQ Custom Application
Manufacturer Warranty	2 years Upgradable to 5 years	2 years Upgradable to 5 years
Overnight Replacement	Contact MultiTech	Contact MultiTech

VIII. Warranty and Support

Two-Year Product Warranty

All MultiTech products include a two-year warranty that includes on-line technical support and 24-hour website support.

Extended Warranty Services

To give your customers peace-of-mind and protect their investment, our Extended Warranty Service Plans ensure MultiTech products are covered for one-, two-, or three-years beyond the two-year manufacturer's warranty.

For a complete list of extended warranty part numbers, descriptions, and prices, please consult the price addendum.

IX. Additional Information

If you have any questions or require additional information on this Worldwide Product Announcement, please contact your MultiTech sales representative or visit the technical resources listed below:

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