

Product Bulletin

MultiTech Introduces 4G LTE Category 4 Conduit Programmable Gateways and IP67 Base Stations



Date: August 28, 2019

I. Summary

Industrial IoT and M2M applications are becoming increasingly dependent on the fastest 4G-LTE data speeds in order to enable intelligence at the edge and support service level commitments to customers. With that in mind, MultiTech introduces a new addition to the Conduit Programmable Gateway and Conduit IP67 Base Station. The newest models now offer 4G-LTE Category 4 support for both AT&T and Verizon wireless networks.

These new 4G-LTE Category 4 models simplify the supply chain management for customers, as one single model number now supports both AT&T and Verizon wireless networks. Combining this simplicity with the powerful Category 4 speeds creates significant value while maximizing overall cost of ownership.

Customers currently using a MultiTech 4G-LTE Category 3 Conduit Programmable Gateways and Conduit IP67 Base Stations should work with their MultiTech sales representative to understand the approaching [Key Dates](#) and [Last-Time-Buy](#) requirements.

For more detailed information or list of specifications, please refer to www.multitech.com or contact your MultiTech sales representative.

II. Suggested Action Plan

Customers who are interested in learning more about the LTE Category 4 MultiTech Conduit Programmable Gateways and Conduit IP67 Base Stations should review [Section IV \(Product Comparison\)](#) of this document to discover the advantages of transitioning to an LTE Category 4 solution.

- Forward this announcement to others in your organization who are involved in the qualification and support of IoT gateways.
- Contact your MultiTech sales representative to purchase a sample device for evaluation and qualification.

Contents:

- I. [Summary](#)
- II. [Suggested Action Plan](#)
- III. [Product Description](#)
- IV. [Product Comparison](#)
- V. [New Part Numbers](#)
- VI. [Cross Reference](#)
- VII. [Category 3 Information](#)
- VIII. [Warranty and Support](#)
- IX. [Additional Information](#)

- Use the [MultiTech Support Portal](#) or [MultiTech Developer Portal](#) if you have any questions; work directly with the Support, Sales and Development teams.
- Visit the [MultiTech Developer Portal](#) to ask development related questions of MultiTech engineering and the development community.

III. Product Description

The MultiConnect Conduit family of products is the industry’s most configurable, manageable, and scalable cellular 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 MultiConnect Conduit series comes in three variants designed to address specific IoT gateway use cases:

- **MultiConnect Conduit:** Indoor industrial gateway, ideal for environments that require metal casing for protection against particles and debris and require an industrial temperature range.
- **MultiConnect Conduit IP67 Base Station:** Outdoor IP67-rated gateway ideal suited for performing in harsh environments such as rain, snow, extreme heat, and high winds.

IV. Product Comparison

The new Conduit IoT Programmable Gateway and Conduit IP67 Base Station include the following enhancements:

- New 4G-LTE Category 4 cellular modem
- One ordering part number for both AT&T and Verizon networks
- Higher peak downlink data rates

Bands supported with the new 4G-LTE Category 4 (-L4N1 models):

AT&T 4G-LTE Bands Supported: 2, 4, 5, 12, 14, and 66

Verizon 4G-LTE Bands Supported: 2, 4, 5, 13, and 66

	4G-LTE Category 4 AT&T/Verizon (-L4N1 Models)	4G-LTE Category 3 AT&T (-LAT1 Models)	4G-LTE Category 3 Verizon (-LVW2 Models)
Cellular Performance	4G - LTE Category 4	4G - LTE Category 3	4G - LTE Category 3
Cellular Fallback	3G - HSPA+ (AT&T only)	3G - HSPA+, 2G - GPRS	No Fallback
FirstNet Support	Yes – AT&T Band 14 Support ⁽¹⁾	No	No

	4G-LTE Category 4 AT&T/Verizon (-L4N1 Models)	4G-LTE Category 3 AT&T (-LAT1 Models)	4G-LTE Category 3 Verizon (-LVW2 Models)
Frequency Bands (MHz)	4G: B2(1900), B4(AWS1700), B5(850), B12(700), B13(700 MHz), B14(700 MHz), B66(1700 MHz), B71(600 MHz) 3G: B2(1900), B4(AWS1700), B5(850)	4G: B2(1900), B4(AWS1700), B5(850), B12(700), B17(700) 3G: B2(1900), B5(850)	4G: B4(AWS1700), B13(700)
Packet Data (LTE FDD)	Up to 150 Mbps peak downlink Up to 50 Mbps peak uplink	Up to 100 Mbps peak downlink Up to 50 Mbps peak uplink	Up to 100 Mbps peak downlink Up to 50 Mbps peak uplink
mPower™ Firmware Support	MTCDDT AEP 5.0.0 ⁽²⁾	MTCDDT AEP 5.0.0 MTCDDT AEP 1.7.4 ⁽²⁾ MTCDDT AEP 1.6.4 ⁽²⁾ MTCDDT AEP 1.4.17 ⁽²⁾	MTCDDT AEP 5.0.0 MTCDDT AEP 1.7.4 ⁽²⁾ MTCDDT AEP 1.6.4 ⁽²⁾ MTCDDT AEP 1.4.17 ⁽²⁾

- (1) All future end-user (OEM) devices will and must go through FirstNet certification prior to being included in the FirstNet device ecosystem.
- (2) Custom applications written in earlier versions of MTCDDT AEP firmware must be upgraded to MTCDDT AEP 5.0.0 in order to transition to the MTCDDT-L4N1 and MTCDDTIP-L4N1 replacement products. Visit <http://www.multitech.net/developer/downloads/#aep> to download the latest firmware version.

Important Verizon Requirement:

Firmware Over The Air (FOTA) - At times, your device may require a critical update to radio firmware for devices connecting to the network. To stay compliant to Verizon’s LTE requirements you must implement FOTA. Failure to perform a critical update could result in losing access to the Verizon network.

This is a new requirement for devices running on the Verizon LTE network. This new requirement will mandate changes in your host application.

MultiTech has developed a script for customers to use in order to initiate a FOTA update (pull FOTA). Full details are provided in the product documentation and at the following link: <https://www.multitech.com/landing-pages/events/campaigns/promotions/products/verizon-fota/fota-notification-page>

V. New Ordering Part Numbers

New Ordering Part Number	Description	Region
MultiConnect® Conduit® IoT Programmable Gateways + LoRa Accessory Cards		
MTCDDT-L4N1-247A-915-US	LTE Cat 4 AEP Programmable Gateway 8-channel, 915 MHz, GNSS+WiFi/BT w/MTAC-LORA-H-915 mCard and US Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Power supply with NAM blade, Ethernet and USB cables, LoRa 868/915 MHz RP-SMA antenna, Wi-Fi antenna, two LTE antennas and Quick Start Guide. GNSS antenna sold separately	US/Canada
MTCDDT-L4N1-246A-915-US	LTE Cat 4 AEP Programmable Gateway 8-channel, 915 MHz, GNSS w/MTAC-LORA-H-915 mCard and US Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Power supply with NAM blade, Ethernet and USB cables, LoRa 868/915 MHz RP-SMA antenna, two LTE antennas and Quick Start Guide. GNSS antenna sold separately.	US/Canada
MultiConnect® Conduit® IoT Programmable Gateways		
MTCDDT-L4N1-247A-US	LTE Cat 4 AEP Programmable Gateway 8-channel, GNSS+WiFi/BT and US Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Power supply with NAM blade, Ethernet and USB cables, two LTE antennas, Wi-Fi antenna and Quick Start Guide. GNSS antenna sold separately	US/Canada
MTCDDT-L4N1-246A-US	LTE Cat 4 AEP Programmable Gateway 8-channel, GNSS w/ US Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Power supply with NAM blade, Ethernet and USB cables, two LTE antennas and Quick Start Guide. GNSS antenna sold separately.	US/Canada
MultiConnect® Conduit® IP67 Base Stations		
MTCDDTIP-L4N1-267A-915	LTE Cat 4 AEP Conduit IP67 Base Station 8-channel, 915 MHz, w/ GNSS+WiFi/BT and Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Mounting bracket kit, LoRa antenna, 2 cellular antennas, 1 GNSS antenna, 1 Wi-Fi/BT antenna	US/Canada
MTCDDTIP-L4N1-266A-915	LTE Cat 4 AEP Conduit IP67 Base Station 8-channel, 915 MHz, w/ GNSS and Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Mounting bracket kit, LoRa antenna, 2 cellular antennas, 1 GNSS antenna	US/Canada
MultiConnect® Conduit® IP67 Geolocation Base Station		
MTCDDTIP-L4N1-275L-915	LTE Cat 4 mLinux Conduit IP67 Geolocation Base Station 16-channel, 915 MHz, w/ GNSS+WiFi/BT and Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Mounting bracket kit, LoRa antenna, 2 cellular antennas, 1 GNSS antenna, 1 WiFi/BT antenna	US/Canada
MTCDDTIP-L4N1-270L-915	LTE Cat 4 mLinux Conduit IP67 Geolocation Base Station 16-channel, 915 MHz, w/ GNSS and Accessory Kit (AT&T/Verizon) Accessory Kit Includes: Mounting bracket kit, LoRa antenna, 2 cellular antennas, 1 GNSS antenna	US/Canada

Product specifications are subject to change without notice.

MTCDDT and MTCDDTIP 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

LTE Category 3 Ordering Part Number ⁽¹⁾	LTE Category 4 Replacement Ordering Part Number	Region
MultiConnect® Conduit® IoT Programmable Gateways + LoRa Accessory Cards		
MTCDDT-LAT1-247A-915-US ⁽¹⁾	MTCDDT-L4N1-247A-915-US	US/Canada
MTCDDT-LVW2-247A-915-US ⁽¹⁾	MTCDDT-L4N1-247A-915-US	US/Canada
MTCDDT-LAT1-246A-915-US ⁽¹⁾	MTCDDT-L4N1-246A-915-US	US/Canada
MTCDDT-LVW2-246A-915-US ⁽¹⁾	MTCDDT-L4N1-246A-915-US	US/Canada
MultiConnect® Conduit® IoT Programmable Gateways		
MTCDDT-LAT1-247A-US ⁽¹⁾	MTCDDT-L4N1-247A-US	US/Canada
MTCDDT-LVW2-247A-US ⁽¹⁾	MTCDDT-L4N1-247A-US	US/Canada
MTCDDT-LAT1-246A-US ⁽¹⁾	MTCDDT-L4N1-246A-US	US/Canada
MTCDDT-LVW2-246A-US ⁽¹⁾	MTCDDT-L4N1-246A-US	US/Canada
MultiConnect® Conduit® IP67 Base Station		
MTCDDTIP-LAT1-267A-915 ⁽¹⁾	MTCDDTIP-L4N1-267A-915	US/Canada
MTCDDTIP-LVW2-267A-915 ⁽¹⁾	MTCDDTIP-L4N1-267A-915	US/Canada
MTCDDTIP-LAT1-266A-915 ⁽¹⁾	MTCDDTIP-L4N1-266A-915	US/Canada
MTCDDTIP-LVW2-266A-915 ⁽¹⁾	MTCDDTIP-L4N1-266A-915	US/Canada

(1) Custom applications written in earlier versions of MTCDDT AEP firmware must be upgraded to MTCDDT AEP 5.0.0 in order to transition to the MTCDDT-L4N1 and MTCDDTIP-L4N1 replacement products. Visit <http://www.multitech.net/developer/downloads/#aep> to download the latest firmware version.

VII. Category 3 Ordering Part Numbers

The availability of Category 4 ordering part numbers initiates the Near-End-Of-Life (NEOL) for the Category 3 ordering part numbers. Contact your MultiTech sales representative to understand these key dates to help ensure an uninterrupted supply of Gateways and Base Stations to meet your deployment requirements:

Key Dates

Conduit Programmable Gateway (MTCDDT-LAT1-XX, MTCDDT-LVW2-XX)

Conduit IP67 Base Station (MTCDDTIP-LAT1-XX, MTCDDTIP-LVW2-XX)

Near-End-of-Life (NEOL) Date: July 25, 2019

Last Time Buy Date: October 31, 2019 or while supplies last

Last Ship Date/End-of-Life (EOL) Date: April 30, 2020 or while supplies last

Last Time Buy Information

By October 31, 2019, submit confirmed order quantities for guaranteed availability with a Non-Cancellable, Non-Returnable (NCNR) order.

Note: All orders placed for products listed in this announcement require an NCNR agreement. Last time ship dates are negotiable with an NCNR agreement. Please contact your MultiTech sales representative for details and a copy of the agreement.

NEOL Ordering Part Number	Description	Region
MultiConnect® Conduit® IoT Programmable Gateways + LoRa Accessory Cards		
MTCDDT-LAT1-247A-915-US	LTE AEP Programmable Gateway w/MTAC-LORA-H-915 mCard, GNSS+Wi-Fi/BT w/US Accessory Kit (AT&T)	US/Canada
MTCDDT-LVW2-247A-915-US	LTE AEP Programmable Gateway w/MTAC-LORA-H-915 mCard, GNSS+Wi-Fi/BT w/US Accessory Kit (Verizon)	US/Canada
MTCDDT-LAT1-246A-915-US	LTE AEP Programmable Gateway w/MTAC-LORA-H-915 mCard, GNSS w/US Accessory Kit (AT&T)	US/Canada
MTCDDT-LVW2-246A-915-US	LTE AEP Programmable Gateway w/MTAC-LORA-H-915 mCard, GNSS w/US Accessory Kit (Verizon)	US/Canada
MultiConnect® Conduit® IoT Programmable Gateways		
MTCDDT-LAT1-247A-US ⁽¹⁾	LTE AEP Programmable Gateway GNSS+WIFI/BT w/US Accessory Kit	US/Canada
MTCDDT-LVW2-247A-US ⁽¹⁾	LTE AEP Programmable Gateway GNSS+WIFI/BT w/US Accessory Kit	US/Canada
MTCDDT-LAT1-247L-US	LTE mLinux Programmable Gateway,GNSS+WIFI/BT w/US Accessory Kit	US/Canada
MTCDDT-LVW2-247L-US	LTE mLinux Programmable Gateway GNSS+WIFI/BT w/US Accessory Kit	US/Canada
MTCDDT-LAT1-246A-US ⁽¹⁾	LTE AEP Programmable Gateway GNSS w/US Accessory Kit (AT&T)	US/Canada

NEOL Ordering Part Number	Description	Region
MTCDDT-LVW2-246A-US ⁽¹⁾	LTE AEP Programmable Gateway GNSS w/US Accessory Kit	US/Canada
MTCDDT-LAT1-246L-US	LTE mLinux Programmable Gateway GNSS w/US Accessory Kit	US/Canada
MTCDDT-LVW2-246L-US	LTE mLinux Programmable Gateway GNSS w/US Accessory Kit	US/Canada
MultiConnect® Conduit® IP67 Base Stations		
MTCDDTIP-LAT1-267A-915 ⁽¹⁾	LTE Cat 3 Application Enablement Conduit IP67 Base Station, GNSS/WiFi/BT/BLE w/Accessory Kit (AT&T)	US/Canada
MTCDDTIP-LVW2-267A-915 ⁽¹⁾	LTE Cat 3 Application Enablement Conduit IP67 Base Station, GNSS/WiFi/BT/BLE w/Accessory Kit (Verizon)	US/Canada
MTCDDTIP-LAT1-266A-915 ⁽¹⁾	LTE Cat 3 Application Enablement Conduit IP67 Base Station, GNSS w/Accessory Kit (AT&T)	US/Canada
MTCDDTIP-LVW2-266A-915 ⁽¹⁾	LTE Cat 3 Application Enablement Conduit IP67 Base Station, GNSS w/Accessory Kit (Verizon)	US/Canada
MultiConnect® Conduit® IP67 Geolocation Base Stations		
MTCDDTIP-LAT1-275L-915	LTE Cat 3 Conduit IP67 Geolocation Base Station, GNSS w/Wi-Fi/BT, w/Accessories (AT&T)	US/Canada
MTCDDTIP-LVW2-275L-915	LTE Cat 3 Conduit IP67 Geolocation Base Station, GNSS w/Wi-Fi/BT, w/Accessories (Verizon)	US/Canada
MTCDDTIP-LAT1-270L-915	LTE Cat 3 Conduit IP67 Geolocation Base Station, GNSS w/Accessories (AT&T)	US/Canada
MTCDDTIP-LVW2-270L-915	LTE Cat 3 Conduit IP67 Geolocation Base Station, GNSS w/Accessories (Verizon)	US/Canada

Product specifications are subject to change without notice.

MTCDDT and MTCDDTIP 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.

VIII. Warranty and Support

[Two-Year Product Warranty](#)

All MultiTech products include a two-year warranty that includes on-line technical support, 24-hour website support and ftp 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 visit:

<https://www.multitech.com/resources/partner-resources/programs/extended-services>

IX. Additional Information

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

World Headquarters – U.S.

+1 (763) 785-3500 | sales@multitech.com

EMEA Headquarters – UK:

+(44) 118 959 7774 | sales@multitech.co.uk

MultiTech Website: www.multitech.com

MultiTech Developer Site: www.multitech.net

MultiTech Support Portal: <https://support.multitech.com/support/login.html>