



## Product Bulletin

# MultiTech Introduces 4G LTE Category 4 SocketModem® Cell Embedded Cellular Modems For North America

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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 SocketModem Cell series of embedded cellular modems. 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 SocketModem Cell embedded cellular modem should work with their MultiTech sales representative to understand the approaching [Key Dates](#) and [Last-Time-Buy](#) requirements.

### II. Suggested Action Plan

Customers who are interested in learning more about the LTE Category 4 SocketModem Cell embedded cellular modems should review this document and learn more about the advantage of transitioning to a LTE Category 4 solution.

- Forward this announcement to others within your organization who are actively involved in the qualification and support of cellular modems.
- Contact your MultiTech sales representative to purchase a sample device for evaluation and qualification.
- Use the [MultiTech Support Portal](#) to ask technical questions and work directly with the support team.

### III. Product Description

The [SocketModem® Cell](#) embedded cellular modems are complete, ready-to-integrate communications devices ideal for customers looking to add cellular communications to their solutions.

These carrier approved and end-device certified embedded modems from MultiTech decrease time to market and save customers money.

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**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 from the (the customer’s) local host processor (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>

**IV. Product Comparison**

The new SocketModem Cell series 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 and 14

Verizon 4G-LTE Bands Supported: 4 and 13

	<b>4G-LTE Category 4 AT&amp;T/Verizon (-L4N1 Models)</b>	<b>4G-LTE Category 3 AT&amp;T (-LAT1 Models)</b>	<b>4G-LTE Category 3 Verizon (-LVW2 Models)</b>
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	<b>Yes</b> – AT&T Band 14 Support <sup>(1)</sup>	No	No
Frequency Bands (MHz)	<b>4G:</b> B2(1900), B4(AWS1700), B5(850), B12(700a), B13(700c), B14(700 FirstNet), B66(AWS-3 1700), B71(600) <b>3G:</b> B2(1900), B4(AWS1700), B5(850)	<b>4G:</b> B2(1900), B4(AWS1700), B5(850), B17(700) <b>3G:</b> B2(1900), B5(850)	<b>4G:</b> 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

(1) All future end-user (OEM) devices will and must go through FirstNet certification prior to being included in the FirstNet device ecosystem.

### V. New Ordering Part Numbers

Ordering Part Number	Description	Region
<b>SocketModem® Cell LTE Cat 4 Embedded Cellular Modems</b>		
MTSMC-L4N1	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)	US/Can
MTSMC-L4N1-SP	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)	US/Can
MTSMC-L4N1-U	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)	US/Can
MTSMC-L4N1-U-SP	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)	US/Can

**Production of the new MTSMC-L4N1 models is slated to start in October. Please contact your MultiTech sales representative for information on sample availability.**

### VI. Cross Reference

NEOL Ordering Part Number	Description	New Ordering Part Number	Description
MTSMC-LAT1	Embedded LTE Cat 3 Modem/Serial w/Fallback & GPS (50 Pk) (AT&T)	MTSMC-L4N1	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LAT1-SP	Embedded LTE Cat 3 Modem/Serial w/Fallback & GPS (1 Pk) (AT&T)	MTSMC-L4N1-SP	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LAT1-U	Embedded LTE Cat 3 Modem/USB w/Fallback & GPS (50 Pk) (AT&T)	MTSMC-L4N1-U	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LAT1-U-SP	Embedded LTE Cat 3 Modem/USB w/Fallback & GPS (1 Pk) (AT&T)	MTSMC-L4N1-U-SP	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LVW2	Embedded LTE Cat 3 Modem/Serial & GPS (50 Pk) (Verizon)	MTSMC-L4N1	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LVW2-SP	Embedded LTE Cat 3 Modem/Serial & GPS (1 Pk) (Verizon)	MTSMC-L4N1-SP	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LVW2-U	Embedded LTE Cat 3 Modem/USB & GPS (50 Pk) (Verizon)	MTSMC-L4N1-U	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LVW2-U-SP	Embedded LTE Cat 3 Modem/USB & GPS (1 Pk) (Verizon)	MTSMC-L4N1-U-SP	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)

NEOL Ordering Part Number	Description	New Ordering Part Number	Description
MTSMC-LAT1.R1	Embedded LTE Cat 3 Modem/Serial w/Fallback & GPS (50 Pk) (AT&T)	MTSMC-L4N1	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (50 Pk)(AT&T/Verizon Dual Mode)
MTSMC-LAT1.R1-SP	Embedded LTE Cat 3 Modem/Serial w/Fallback & GPS (1 Pk) (AT&T)	MTSMC-L4N1-SP	Embedded LTE Cat 4 Modem/Serial w/Fallback & GNSS (1 Pk) (AT&T/Verizon Dual Mode)
MTSMC-LAT1-U.R1	Embedded LTE Cat 3 Modem/USB w/Fallback & GPS (50 Pk) (AT&T)	MTSMC-L4N1-U	Embedded LTE Cat 4 Modem/USB w/Fallback & GNSS (50 Pk) (AT&T/Verizon Dual Mode)
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*Product specifications are subject to change without notice.*

MTSMC-Lxxx 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.

### 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 embedded cellular modems to meet your deployment requirements:

#### Key Dates

**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

#### 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 Numbers

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MTSMC-LAT1-U	Embedded LTE Cat 3 Modem/USB w/Fallback & GPS (50 Pk) (AT&T)	US/Can
MTSMC-LAT1-U-SP	Embedded LTE Cat 3 Modem/USB w/Fallback & GPS (1 Pk) (AT&T)	US/Can
MTSMC-LVW2	Embedded LTE Cat 3 Modem/Serial & GPS (50 Pk) (Verizon)	US
MTSMC-LVW2-SP	Embedded LTE Cat 3 Modem/Serial & GPS (1 Pk) (Verizon)	US
MTSMC-LVW2-U	Embedded LTE Cat 3 Modem/USB & GPS (50 Pk) (Verizon)	US
MTSMC-LVW2-U-SP	Embedded LTE Cat 3 Modem/USB & GPS (1 Pk) (Verizon)	US
MTSMC-LAT1.R1	Embedded LTE Cat 3 Modem/Serial w/Fallback & GPS (50 Pk) (AT&T)	US/Can
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MTSMC-LVW2.R1	Embedded LTE Cat 3 Modem/Serial & GPS (50 Pk) (Verizon)	US
MTSMC-LVW2.R1-SP	Embedded LTE Cat 3 Modem/Serial & GPS (1 Pk) (Verizon)	US
MTSMC-LVW2-U.R1	Embedded LTE Cat 3 Modem/USB & GPS (50 Pk) (Verizon)	US
MTSMC-LVW2-U.R1-SP	Embedded LTE Cat 3 Modem/USB & GPS (1 Pk) (Verizon)	US

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### 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.

### **IX. Additional Information**

If you have any questions or require additional information on this Product Bulletin, please contact your MultiTech sales representative:

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