

Product Change Notification
Software Release Notes
MultiTech xDot® and mDot™ Long Range LoRa® Modules

New AT Command Firmware
v4.1.38

Date: March 9, 2026

I. Product Change Notification (PCN) Number

PCN 03092026-001

II. Summary

MultiTech announces a new firmware release for xDot® and mDot™ LoRaWAN® embedded modules.

III. Impacted Products

All MultiTech mDot™ and xDot® classic modules and developer kits.

UPC	Order Part Number	Description
789407363467	MTXDOT-AU1-A00-100	AU915 MHz LoRa Module UFL/TRC (100 Pk)
789407363474	MTXDOT-AU1-A00-1	AU915 MHz LoRa Module UFL/TRC (1 Pk)
789407363481	MTXDOT-EU1-A00-100	868 MHz LoRa Module UFL/TRC (100 Pk)
789407363498	MTXDOT-EU1-A00-1	868 MHz LoRa Module UFL/TRC (1 Pk)
789407363504	MTXDOT-NA1-A00-100	915 MHz LoRa Module UFL/TRC (100 Pk)
789407363511	MTXDOT-NA1-A00-1	915 MHz LoRa Module UFL/TRC (1 Pk)
789407363733	MTXDOT-AU1-A01-100	AU915 MHz LoRa Module TRC (100 Pk)
789407363740	MTXDOT-AU1-A01-1	AU915 MHz LoRa Module TRC (1 Pack)
789407363757	MTXDOT-EU1-A01-100	868 MHz LoRa Module TRC (100 Pk)
789407363771	MTXDOT-NA1-A01-100	915 MHz LoRa Module TRC (100 Pk)
789407366420	MTXDOT-AS1-A00-100	AS923 MHz LoRa Module UFL/TRC (100 Pk)
789407366512	MTXDOT-AS1-A00-1	AS923 MHz LoRa Module UFL/TRC (1 Pk)
789407366529	MTXDOT-AS1-A01-100	AS923 MHz LoRa Module TRC (100 Pk)
789407366895	MTXDOT-JP1-A00-100	AS923 MHz LoRa Module UFL/TRC w/LBT (100 Pk)
789407366901	MTXDOT-JP1-A00-1	AS923 MHz LoRa Module UFL/TRC w/LBT (1 Pk)

UPC	Order Part Number	Description
789407370274	MTXDOT-NA1-A00-1000	915 MHz LoRa Module UFL/TRC (1000 Pk)
789407370281	MTXDOT-NA1-A01-1000	915 MHz LoRa Module TRC (1000 Pk)
789407370489	MTXDOT-KR1-A00-100	KR920 MHz LoRa Module UFL/TRC (100 PK)
789407370496	MTXDOT-KR1-A00-1	KR920 MHz LoRa Module UFL/TRC (1 PK)
789407370502	MTXDOT-EU1-IN1-A00-100	IN865 MHz LoRa Module UFL/TRC (100 PK)
789407370519	MTXDOT-EU1-IN1-A00-1	IN865 MHz LoRa Module UFL/TRC (1 PK)
789407363443	MTMDK-XDOT-NA1-A00	xDot Micro Developer Kit, includes 915 MHz xDot
789407363450	MTMDK-XDOT-EU1-A00	xDot Micro Developer Kit, includes 868 MHz xDot
789407363528	MTMDK-XDOT-AU1-A00	xDot Micro Developer Kit, includes AU915 MHz xDot
789407365768	MTMDK-XDOT-JP1-A00	xDot Micro Developer Kit, includes AS923 MHz xDot w/LBT
789407366536	MTMDK-XDOT-AS1-A00	xDot Micro Developer Kit, includes AS923 MHz xDot
789407367014	MTMDK-XDOT-KR1-A00	xDot Micro Developer Kit, includes IN865 MHz xDot
789407370526	MTMDK-XDOT-EU1-IN1-A00	xDot Micro Developer Kit, includes IN865 MHz xDot
789407374784	MTXDOT-AU1-A00-1000	AU915 MHz LoRa Module UFL/TRC (1000 Pk)
789407374302	MTXDOT-EU1-A00-1000	868 MHz LoRa Module UFL/TRC (1000 Pk)
789407376573	MTXDOT-AS1-A00-310-100	AS923 MHz LoRa Module UFL/TRC (100 Pk) Firmware 3.1.0
789407373985	MTXDOT-AU1-A00-310-100	AU915 MHz LoRa Module UFL/TRC (100 Pk) Firmware 3.1.0
789407378027	MTXDOT-AU1-A00.R1-1000	AU915 MHz LoRa Module UFL/TRC (1000 Pk)
789407378034	MTXDOT-AU1-A00.R1-1	AU915 MHz LoRa Module UFL/TRC (1 Pk)
789407378751	MTXDOT-NA1-A01-1000-321	915 MHz LoRa Module TRC (1000 Pk)
789407378782	MTXDOT-NA1-A00-100-321	915 MHz LoRa Module UFL/TRC (100 Pk)
789407360909	MTDOT-868-X1-SMA-50	868 MHz X1 LoRa SMA (50 Pk)
789407360091	MTDOT-868-X1-SMA-1	868 MHz X1 LoRa SMA (1 Pk)
789407360893	MTDOT-868-X1-UFL-50	868 MHz X1 LoRa UFL (50 Pk)
789407360107	MTDOT-868-X1-UFL-1	868 MHz X1 LoRa UFL (1 Pk)
789407360947	MTDOT-868-M1-UFL-100	868 MHz SMT LoRa UFL (100 Pk)
789407360121	MTDOT-868-M1-UFL-1	868 MHz SMT LoRa UFL (1 Pk)
789407360916	MTDOT-868-M1-TRC-100	868 MHz SMT LoRa RF Pad (100 Pk)
789407360138	MTDOT-868-M1-TRC-1	868 MHz SMT LoRa RF Pad (1 Pk)
789407360732	MTDOT-868-X1P-SMA-1	868 MHz X1 LoRa SMA w/Programming Header (1 Pk)

UPC	Order Part Number	Description
789407360862	MTDOT-915-X1-SMA-50	915 MHz X1 LoRa SMA (50 Pk)
789407360053	MTDOT-915-X1-SMA-1	915 MHz X1 LoRa SMA (1 Pk)
789407360886	MTDOT-915-X1-UFL-50	915 MHz X1 LoRa UFL (50 Pk)
789407360060	MTDOT-915-X1-UFL-1	915 MHz X1 LoRa UFL (1 Pk)
789407360930	MTDOT-915-M1-UFL-100	915 MHz SMT LoRa UFL (100 Pk)
789407360077	MTDOT-915-M1-UFL-1	915 MHz SMT LoRa UFL (1 Pk)
789407360923	MTDOT-915-M1-TRC-100	915 MHz SMT LoRa RF Pad (100 Pk)
789407360084	MTDOT-915-M1-TRC-1	915 MHz SMT LoRa RF Pad (1 Pk)
789407360749	MTDOT-915-X1P-SMA-1	915 MHz X1 LoRa SMA w/Programming Header (1 Pk)
789407370441	MTDOT-915-X1P-SMA-50	915 MHz X1 LoRa SMA w/Programming Header (50 Pk)
789407364143	MTDOT-915-AU-M1-UFL-100	AU915 MHz SMT LoRa UFL (100 Pk)
789407364150	MTDOT-915-AU-M1-UFL-1	AU915 MHz SMT LoRa UFL (1 Pk)
789407364167	MTDOT-915-AU-M1-TRC-100	AU915 MHz SMT LoRa RF Pad (100 Pk)
789407364174	MTDOT-915-AU-M1-TRC-1	AU915 MHz SMT LoRa RF Pad (1 Pk)
789407364181	MTDOT-915-AU-X1-UFL-50	AU915 MHz X1 LoRa UFL (50 Pk)
789407364198	MTDOT-915-AU-X1-UFL-1	AU915 MHz X1 LoRa UFL (1 Pk)
789407364204	MTDOT-915-AU-X1-SMA-50	AU915 MHz X1 LoRa SMA (50 Pk)
789407364211	MTDOT-915-AU-X1-SMA-1	AU915 MHz X1 LoRa SMA (1 Pk)
789407364228	MTDOT-915-AU-X1P-SMA-1	AU915 MHz X1 LoRa SMA w/Programming Header (1 Pk)
789407365775	MTDOT-923-JP1-X1P-SMA-1	AS923 MHz x1 LoRa SMA w/Programming Header w/LBT (1 Pk)
789407366338	MTDOT-923-AS1-X1-SMA-50	AS923 LoRa SMA (50 Pk)
789407366345	MTDOT-923-AS1-X1-SMA-1	AS923 LoRa SMA (1 Pk)
789407366413	MTDOT-923-AS1-X1P-SMA-1	AS923 MHz X1 LoRa SMA w/Programming Header (1 Pk)
789407366352	MTDOT-923-AS1-X1-UFL-50	AS923 MHz X1 LoRa UFL (50 Pk)
789407366369	MTDOT-923-AS1-X1-UFL-1	AS923 MHz X1 LoRa UFL (1 Pk)
789407366406	MTDOT-923-AS1-M1-UFL-100	AS923 MHz SMT LoRa UFL (100 Pk)
789407366390	MTDOT-923-AS1-M1-UFL-1	AS923 MHz SMT LoRa UFL (1 Pk)
789407366376	MTDOT-923-AS1-M1-TRC-100	AS923 SMT LoRa RF Pad (100 Pk)
789407366383	MTDOT-923-AS1-M1-TRC-1	AS923 SMT LoRa RF Pad (1 Pk)
789407367021	MTDOT-920-KR1-X1P-SMA-1	KR920 MHz X1 LoRa SMA w/Programming Header (1 Pk) Korea

IV. Overview of Change

Firmware changes from version 4.1.36 to 4.1.38

4.1.38

Version Info

- mbed-os 6.8.0
- library - v4.1.36
- mts-lora - v4.1.24
- LoRaWAN - 1.0.4
- Regional Parameters - RP2 1.0.3
- Fragmentation - v1.0
- Multicast Setup - v2.0

Bootloader

- mDot 1.1.0
- xDot 1.1.2

GLOBAL Plan supported regions

- xDot: US915,AU915,EU868,AS923,AS923-2,AS923-3,AS923-4,AS923-JAPAN
- mDot: US915,AU915,EU868,AS923,AS923-2,AS923-3,AS923-4,AS923-JAPAN,KR920,IN865,RU864

Bug Fixes

- Fix for join backoff after 24 hours, reset time-on-air after each 24-hour period to allow more joins per day.
- Fixed RX2 SF12 would miss packets at max size if confirmed uplinks were sent, ACK missed occurred before packet was received
 - Adjust ACK Timeout dynamically for SF12/SF11/SF10 BW125 in AS923,EU868,KR920,IN865 plans
- Updated compiler for build of bootloader to fix serial transfer issues

V. Key Dates

Implementation:

- Firmware available for download now at [MultiTech Developer Resources » Downloads](#)
- Modules from the factory will now ship with 4.1.38 firmware

VI. Suggested Action Plan

Customers

- Review the information in this PCN and forward to others within your organization who are actively involved with the development of IoT applications using the MultiTech embedded modules.
- Consider downloading the firmware available on the MultiTech website to check compatibility with existing deployments.

Distributors

- Forward this announcement to others within your organization who are actively involved in the sale or support of LoRa-enabled modules.
- Notify existing customers of this change.

VII. Additional Information

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

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MultiTech Support: <https://multitech.com/product-support/>

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Revision History

Version	Author	Date	Change Description
-001	TM	03/05/2026	xDot & mDot Firmware changes – version 4.1.36 to 4.1.38