

Product Change Notification Software Release Notes

mPower™ Edge Intelligence Software mPower 5.3.4b

MultiTech Conduit® IP67 200 Series Base Station



Date: June 17, 2021

Product Change Notification (PCN) Number
PCN 06172021-001 (mPower – Conduit IP2)

I. Overview

mPower 5.3.4b is for use on the MultiTech Conduit® IP67 200 Series Base Stations:

- mPower 5.3.4b is built using Yocto Thud (version 2.6.X)
- Includes:
 1. New Hardware Support:
 - [Conduit IP67 200 Series Base Station](#)
 2. Feature Enhancement:
 - [Automatic Restart of LoRa Packet Forwarder](#)
 3. Deprecated Feature:
 - [Native Node-RED, Node.js support](#)
 4. New Feature:
 - [Node-RED Custom Application](#)

mPower 5.3.4b is available and included in select devices starting June 2021. See [part numbers impacted](#) for details

II. Suggested Action Plan

Customers

1. Begin evaluating the Conduit IP67 200 Series Base Station with mPower 5.3.4b
2. Additional information
 - Technical inquiries: email support@multitech.com
 - Sales inquiries: email sales@multitech.com

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III. mPower 5.3.4b Overview

mPower 5.3.4b is built upon mPower 5.3.3

For details about mPower 5.3.3, refer to [Software Release Notes - mPower 5.3.3](#)

New Hardware Support (mPower 5.3.4b):

mPower 5.3.4b includes support for the following new hardware:

MultiTech Conduit[®] IP67 200 Series Base Station

- See [part numbers impacted](#) for details
- <https://www.multitech.com/brands/conduit-ip67-200>

Feature Enhancement (mPower 5.3.4b) – Automatic Restart of LoRa[®] Packet Forwarder [GP-1063] [TS-5103821]

Background: Customers with earlier versions of mPower have experienced that the gateway may stop transmitting after running for 9 or more days. We have also observed that the LoRa packet forwarder can occasionally reset during normal operation. If the gateway is not transmitting when the LoRa packet forwarder resets, the LoRa packet forwarder does not shut down properly. Restarting the LoRa packet forwarder resumes normal operations.

Solution: mPower 5.3.4b includes an automatic restart of the LoRa packet forwarder. Every 10 hours, the LoRa packet forwarder is restarted and recovery occurs.

Deprecation (mPower 5.3.4b) – Native support for Node.js and Node-RED

1. mPower 5.3.3 and mPower 5.3.4b do not include native support for Node.js or Node-RED applications
 - mPower versions 5.2.X and earlier include native support for Node.JS version 0.10.48-r1.7 and Node-RED version 0.15.3.
 - For details on other methods to create custom applications, see [creating a custom application](#).
 - Devices impacted: Limited to Atmel-based devices. See [part numbers impacted](#).

New Feature (mPower 5.3.4b):

Node-RED Custom Application

- A separate custom application has been developed that will allow Node-RED applications to be supported in newer versions of mPower.
- The user can install using DeviceHQ or the web interface:
- For additional information, visit <https://www.multitech.net/developer/software/aep/creating-a-custom-application/installing-node-red-as-a-custom-app/>

IV. Schedule

There are multiple versions of mPower Edge Intelligence firmware available for customer evaluation and final release.

- Manufacturing (New Hardware – Conduit IP67 200 Series Base Station)
 - mPower version: MTCAP 5.3.4b
 - Availability: June 2021
 - See [part numbers impacted](#) for details

- DeviceHQ
 - Cloud-based IoT Device Management
 - mPower version: MTCAP 5.3.4b Availability
 - Availability: June 2021
 - DeviceHQ login: https://www.devicehq.com/sign_in
 - Instructions: [Upgrading Firmware Using DeviceHQ](#)

V. Ordering Part Numbers Impacted

The following ordering part numbers are impacted by these updates:

Model Name Ordering Part Numbers	Ordering Part Numbers	Ordering Part Numbers
Conduit® IP67 200 Series Base Stations (mPower version MTCAP 5.3.4b)		
Status: New Hardware ⁽¹⁾	Status: New Hardware ⁽¹⁾	Status: New Hardware ⁽¹⁾
MTCDTIP2-EN-B11EKP-D1M ⁽¹⁾	MTCDTIP2-L4E1-B11EKP-D1M ⁽¹⁾	MTCDTIP2-EN-B11UKP-L1M ⁽¹⁾
MTCDTIP2-EN-B11EKP-L1M ⁽¹⁾	MTCDTIP2-L4E1-B11EKP-L1M ⁽¹⁾	MTCDTIP2-LNA3-B11UKP-L1M ⁽¹⁾

Footnotes:

	Hardware Status	Manufacturing Updates	Comments
(1)	New	June 2021	<ul style="list-style-type: none"> • New device that is shipping for the first time • Some customers may be testing devices with an earlier version of mPower firmware or a beta version of mPower firmware • MultiTech recommends that customers update this hardware to mPower 5.3.4b firmware
(2)	Active	n/a	<ul style="list-style-type: none"> • Active devices continue to ship with earlier mPower versions • Devices can be individually updated by customers
(3)	NEOL	n/a	<ul style="list-style-type: none"> • NEOL devices continue to ship with earlier mPower versions • Devices can be individually updated by customers

VI. mPower™ Edge Intelligence

mPower™ Edge Intelligence is MultiTech's embedded software offering, building on the popular application enablement platform, to deliver programmability, network flexibility, enhanced security and manageability for scalable Industrial Internet of Things (IIoT) solutions.

mPower Edge Intelligence simplifies integration with a variety of popular upstream IoT platforms to streamline edge-to-cloud data management and analytics, while also providing the programmability and processing capability to execute critical tasks at the edge of the network to reduce latency, control network and cloud services costs, and ensure core functionality – even in instances when network connectivity may not be available.

In response to evolving customer security requirements, mPower Edge Intelligence incorporates a host of security features including signed firmware validation, enhanced firewall and VPN settings, secure authentication and more.

VII. Additional Information

If you have any questions regarding this Product Change Notification/Software Release Notice, please contact your MultiTech sales representative or visit the technical resources listed below:

World Headquarters – USA

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

EMEA Headquarters – UK

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

MultiTech Developer Resources:

www.multitech.net

An open environment where you can ask development related questions and hear back from MultiTech engineering or a member of this community.

Knowledge Base:

<http://www.multitech.com/kb.go>

Immediate access to support information and resolutions for all MultiTech products.

MultiTech Support Portal:

<https://support.multitech.com/support/login.html>

Create an account and submit a support case directly to our technical support team.

MultiTech Website:

www.multitech.com

Revision History

Version	Author	Date	Change Description
-001	DT	05/19/2021	Original version
-002	DT	6/17/2021	Updates