

Prepared (Subject resp) jjdmawan Marshall Wang		No. FPM-ext-2024:39	
Approved (Document resp) jiddxiea David Xie	Checked	Date 4/19/2024	Rev A

**For your Information**

Sales and FAEs

**Receiver**

All of customers

**Product change notification- BMR350 family****1 Products affected**

Flex Power Modules is continuously working to optimize product performance to support customer applications better.

A Firmware patch is updated to improve the PMBus robustness against noise.

Flex MPN	Input VI [V]	Output VO [V]	Output Power [W]	Existing R-status	New R-status
BMR3502100/031H	40-60	12	860	R1B	R1C
BMR3502101/801H	40-60	12	860	R2A	R2B
BMR3502320/802H	40-60	12	600	R2A	R2B
BMR3502102/002H	40-60	12	860	R1B	R1C
BMR3504102/002H	40-60	12	860	R1B	R1C
BMR3504250/531H	40-60	12	1300	R1B	R1C
BMR3502250/531H	40-60	12	1300	R1B	R1C
BMR3502050/531H	40-60	12	1300	R1B	R1C
BMR3502253/803H	40-60	12	1300	R1C	R1D
BMR3502250/831H	40-60	12	1300	R1B	R1C
BMR3502450/831H	40-60	12	1300	R1B	R1C

For more information about BMR350 product series, please refer to the technical specifications through Flex Power Modules website.

[BMR350 series • Power Modules • Flex \(flexpowermodules.com\)](https://www.flexpowermodules.com)

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## 2 PCN Classification

Minor Change: There is no change to Form, Fit or Function. R-state of the product is changed as indicated.

There is no change at hardware.

The change is only at firmware.

## 3 Reason for Change

A firmware patch update is implemented to improve the PMBus robustness against noise.

## 4 Change Explanation

The debounce filter in Firmware has been upgraded to improve the PMBus robustness against noise.

In previous firmware version, 0x5B97FCB1 features an 80ns debounce filter. In the updated firmware version, 0x5B97FFB3 incorporates a 320ns debounce filter.

Verification tests at Flex Power Modules prove that the firmware update is an effective solution to eliminate potential PMBus read issue in applications.

The firmware patch update is only to enhance the PMBus robustness against noise, there is no impact on product features, product functions etc. It is unnecessary for customers to redo the qualification of other product functions/features even if customer decides to go with a reduced qualification based on the new firmware samples.

## 5 Product verification

Electrical, mechanical and production verification tests have been performed according to Flex Power Modules' product approval process.

## 6 Test Results

Approved.

## 7 Inventory and delivery impact

All existing inventory with old firmware inside can be continuously used. Guidance or support from local sales representative can be provided.

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The new samples with new firmware patch inside are available to support customer evaluation.

## 8 Safety approvals

No change to safety approvals.

## 9 Availability Date

Flex part number	Existing Revision	Planned availability of new revision samples	Planned availability of new revision	Orders accepted of existing revisions until
BMR3502100/031H	R1B	April 10 <sup>th</sup> , 2024	April 20 <sup>th</sup> , 2024	April 20 <sup>th</sup> , 2024
BMR3502101/801H	R2A	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3502320/802H	R2A	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3502102/002H	R1B	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3504102/002H	R1B	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3504250/531H	R1B	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3502250/531H	R1B	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3502050/531H	R1B	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3502253/803H	R1C	May 6 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024
BMR3502250/831H	R1B	April 20 <sup>th</sup> , 2024	April 30 <sup>th</sup> , 2024	April 30 <sup>th</sup> , 2024
BMR3502450/831H	R1B	May 10 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024	May 20 <sup>th</sup> , 2024

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**10****Addendum**

No response within 30 days will be taken as an acceptance of this PCN.

If you have any questions, please do not hesitate to contact the undersigned.

**Marshall Wang**

Product Manager

Flex Power Modules

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