



Process/Product Change Notification (PCN)

General PCN Information

PCN # 21-0067	QPG6095 ROM update and improved test efficiency		PCN Date	Mar 19, 2021
Initiator	Ohad Peled		Date	Mar 19, 2021
Post to PCN Alert?	☒ Yes	☐ No	E-mail	PCNresponse@qorvo.com
Type of Change:	☐ Major		☒ Minor	☐ Obsolescence
Change Affects	☐ Form ☐ Fit ☐ Function ☐ Reliability ☐ N/A ☐ Other:			

Description of Change: ROM is updated to correct a FLASH erase issue in case of an execution fault during Bootloader execution at startup. Analysis confirmed fast voltage dips during startup (below 1.1V before detection by the periodic VMT / Cut-Off circuit) can trigger a Bootloader execution fault. The improvement prevents FLASH erase routine execution in case that fault is pending. The change is highly localized and has no impact on the performance and functionality of the device.

A reference voltage is modified, resulting in a higher voltage (3.6V vs 2.9V) for one of the test voltages used during embedded FLASH test. The change increases the effectiveness of a test designed to screen out single bit FLASH failures. The change is localized to a specific voltage reference circuit, used only during device production. The change has no reliability and no operational impact.

Reason for Change: Continuous Improvement

Detail of potential impact to customer: The change has no reliability and no operational impact. No change in form, fit and function compared to current QPG6095 silicon. QPG6095 RF circuits and performance are not impacted by this change, supported by Qorvo provided RF test reports. There are no software dependencies and no impact to the QPG6095 Smart Home SDK.

Affected Products: QPG6095

Comments and/or Supporting Data:

The following only applies to Major and Minor Changes

Affected Product Specification (if applicable): Datasheet

Qualification Plan or Data (if applicable): Qualification complete. Qualification report available on request.

Customer Samples Available (if applicable): May 5, 2021: Available, contact (ohad.peled@qorvo.com)

Qualification Results Available (if applicable): Available, contact (ohad.peled@qorvo.com)

Planned First Ship Date: Jul 1, 2021

Identification of Changed Product (if applicable): None

Customer Acknowledgement/Responses: All Customer responses must be sent via e-mail to PCNResponse@qorvo.com. When replying, please include the PCN number in subject line. Customers should acknowledge receipt of the PCN within 30 days of delivery of the PCN. Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change. Any concerns, sample order response, or a request for further information must be provided within the acknowledgement period. If additional time is required to determine if samples or additional data is required, the customer must submit this request along with the acknowledgement response and state when they expect to complete their review. After acknowledgement, lack of additional response prior to the planned first ship date constitutes acceptance of the change. If the customer requires additional time to perform sample testing, beyond the stated planned first ship date, an extension must be negotiated with Qorvo. Acceptance of the PCN prior to the planned first ship date is considered approval to begin shipments early. Any contractual PCN agreements made with Qorvo supersede these requirements.

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