

Product Change Notification (PCN)

PCN #: 8F-2026

Date: August 20th, 2026

1 Products Affected

Ezurio Part Number	Description
N93_SMARC_SOM_1r16e	Nitrogen93 SMARC SOM: i.MX 93 Dual / 1GB / 16GB eMMC / 0 to +70°C / Without Wireless
N93_SMARC_SOM_2r16e	Nitrogen93 SMARC SOM: i.MX 93 Dual / 2GB / 16GB eMMC / 0 to +70°C / Without Wireless
N93_SMARC_SOM_1r16e_i	Nitrogen93 SMARC SOM: i.MX 93 Dual / 1GB / 16GB eMMC / -40 to +85°C / Without Wireless
N93_SMARC_SOM_2r16e_i	Nitrogen93 SMARC SOM: i.MX 93 Dual / 2GB / 16GB eMMC / -40 to +85°C / Without Wireless
N93_SMARC_SOM_1r16e_NX611_1M	Nitrogen93 SMARC SOM: i.MX 93 Dual / 1GB / 16GB eMMC / NX611 / 0 to +70°C
N93_SMARC_SOM_1r16e_NX611_1M_i	Nitrogen93 SMARC SOM: i.MX 93 Dual / 1GB / 16GB eMMC / NX611 / -40 to +85°C
N93_SMARC_SOM_2r16e_NX611_1M	Nitrogen93 SMARC SOM: i.MX 93 Dual / 2GB / 16GB eMMC / NX611 / 0 to +70°C
N93_SMARC_SOM_2r16e_NX611_1M_i	Nitrogen93 SMARC SOM: i.MX 93 Dual / 2GB / 16GB eMMC / NX611 / -40 to +85°C
N93_SMARC_SOM_1r16e_IF573_3M	Nitrogen93 SMARC SOM: i.MX 93 Dual / 1GB / 16GB eMMC / IF573 / 0 to +70°C
N93_SMARC_SOM_1r16e_IF573_3M_i	Nitrogen93 SMARC SOM: i.MX 93 Dual / 1GB / 16GB eMMC / IF573 / -40 to +85°C
N93_SMARC_SOM_2r16e_IF573_3M	Nitrogen93 SMARC SOM: i.MX 93 Dual / 2GB / 16GB eMMC / IF573 / 0 to +70°C
N93_SMARC_SOM_2r16e_IF573_3M_i	Nitrogen93 SMARC SOM: i.MX 93 Dual / 2GB / 16GB eMMC / IF573 / -40 to +85°C
EZSMI-935-0216-00158-2-K2	Nitrogen93 SMARC Evaluation Kit: 7 in Display / SMARC Carrier Board / i.MX 93 / 2GB / 16GB eMMC / NX611 1MHF / Accessories

2 Description of Changes

- 1) Replace the existing BAT54C with a lower-forward-voltage Schottky diode. SDM40E20LC-7 provides lower forward-voltage drop compared with the existing BAT54C, improving the voltage available on the downstream NVCC_BBSM_1V8 rail.
- 2) This PCN also serves as notification that the Memory D0811PM1WDGTK-U and NT6AN512M16AV-J1I are approved for interchangeable use in production. Because both devices share the same interface standard, package footprint, electrical characteristics, and memory density, they are form-fit-function compatible for the intended application

Ezurio Part Number	Current REV	TEMP Change/Micron Memory REV	TEMP Change/Nanya Memory REV
N93_SMARC_SOM_1r16e	30B-R	3-3	3-4
N93_SMARC_SOM_2r16e	30B-R	3-2	N/A
N93_SMARC_SOM_1r16e_i	30B-R	3-2	3-3
N93_SMARC_SOM_2r16e_i	30B-R	3-2	N/A
N93_SMARC_SOM_1r16e_NX611_1M	N/A	3-2	3-3
N93_SMARC_SOM_1r16e_NX611_1M_i	N/A	3-2	3-3
N93_SMARC_SOM_2r16e_NX611_1M	30B-R	3-2	N/A
N93_SMARC_SOM_2r16e_NX611_1M_i	30B-R	3-2	N/A
N93_SMARC_SOM_1r16e_IF573_3M	N/A	3-2	3-3
N93_SMARC_SOM_1r16e_IF573_3M_i	N/A	3-2	3-3
N93_SMARC_SOM_2r16e_IF573_3M	N/A	N/A	N/A
N93_SMARC_SOM_2r16e_IF573_3M_i	30B-R	3-2	N/A
EZSMI-935-0216-00158-2-K2	30B-R	3-2	N/A

3 Reason for Change

- 1) The board shows reset/startup reliability issues at -40°C. Investigation indicates that the voltage drop across the existing BAT54C diode reduces the effective NVCC_BBSM_1V8 voltage. This can reduce the high-level margin for PMIC_RST_B.
- 2) Allowing both Memory devices to be used interchangeably ensures manufacturing continuity and reduced supply chain risk, while maintaining the same functional and electrical performance

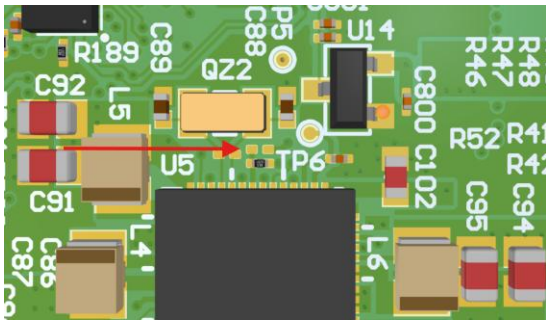
4 Anticipated Impact of the Change

No anticipated impact, outside of the performance improvements at -40°C stated in section 2.

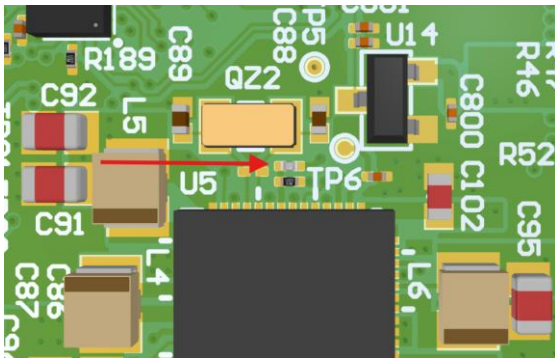
5 Method of Identifying the Changed Product

5.1 Designator R41

- Previous REV is unpopulated



- New REV is populated



5.2 Memory

- D0811PM1WDGK-U (current component)



- NT6AN512M16AV-J1I (new component)



6 Factory Effectivity Date

These changes will be phased into production builds starting immediately.

NOTE – As the memory is interchangeable and has no impact on form / fit or function, production orders will be supplied at either stated REV depending on memory availability in the current global market constraints.

7 Contact Information

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