

Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

ADVANCE PRODUCT CHANGE NOTIFICATION

APCN: APCN201002

Date: March 06, 2020

Subject: Planned Qualification of New Assembly Sites for Select Automotive RAM Products

To:

Description of Change:

Cypress is planning to qualify new assembly sites for select Automotive RAM products currently running at JCET (78 Changshan Rd, Jiangyin, Jiangsu, China 214400) and OSET (12-2 Nel Huan South Rd. N.E.P.Z. Kaohsiung, Taiwan 811, R.O.C.).

The products will be qualified at the following sites already utilized by Cypress for similar packages.

- a. Greatek Taiwan (No.136, Gon-Yi Rd. Zhunan Township, Miaoli County 350 Taiwan, R.O.C.)
- b. Cypress Bangkok (229 Moo 4 Changwattana Road Pakkred, Nonthaburi 11120 Thailand)

Both sites are qualified to build automotive grade products consistent with AEC-Q100/AEC-Q006 standards.

Refer to the table below for the qualification schedules, PCN publication dates, and estimated implementation dates. This is an advance notification and no immediate action is needed.

| Package Code | Package Type | Current Assembly Site | New Assembly Site | Estimated Cypress Qualification Date | Estimated PCN Publication Date | Estimated Implementation Date |
|-----------------|-------------------------|-----------------------------|-------------------------|---|---|-------------------------------------|
| ZW44A/ ZW44B | TSOPII 44L (400mils) | JCET and OSET | Greatek | Mar-2021 | Apr-2021 | Oct-2021 |
| SZ324 | SOIC 32L (450mils) | JCET | Greatek | Jun-2020 | Jul-2020 | Jan-2021 |
| ZB32/ ZB32F | TSOP 32L (8x13.4) | JCET | Greatek | Mar-2021 | Apr-2021 | Oct-2021 |
| ZZ16 | TSSOP 16L (173mils) | OSET | Greatek | Mar-2021 | Apr-2021 | Oct-2021 |
| ZT48A | TSOP 48L (12x20) | OSET | ВКК | Dec-2020 | Jan-2021 | Jul-2021 |

Benefit of Change:

Cypress will have the capability to meet market demand, and to ensure consistent and reliable delivery performance to customers. It is important, especially in the current pandemic situation, to establish alternate sources of supply.

Part Numbers Affected: 107

See the attached 'Affected Parts List' file for a list of all part numbers affected by this change.

Qualification Status:

Estimated dates for completion of the qualifications are provided in this notification.

Approximate Implementation Date:

Estimated implementation dates are provided in this notification. Given the criticality of establishing alternate sources of supply, it is important that we enable these sources expeditiously.

Cypress will make every effort to further improve the qualification schedule; an updated notification will be sent if the schedule is accelerated.

Anticipated Impact:

No impact to form, fit and function is expected.

Method of Identification:

Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

This is an information only announcement. No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at <u>pcn_adm@cypress.com</u>.

Sincerely,

Cypress PCN Administration

| | | | 1 | | [| | |
|----------|---|-----------------------|---|---|---|----------------------------|---|
| | Marketing Part Number 8905504784 | Package Code ZW44A | Manufacturing Step_Transfer Site Greatek | Part Number After Transfer No Part Number Change | Estimated CY Qualification Date March 2021 | | Estimated CY Implementation date October 2021 |
| | 8905504784 | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 3 | 8909007818X | ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 4 | A2C01848400 | ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 5 6 | A2C02770900 A2C03558300 | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 7 | A2C03558300 A2C03558300X | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 October 2021 |
| 8 | C3BBHY000059 | ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 9 | C3BBKY000108 | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 10 | CY14B104NA-ZS25XE | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 11 12 | CY14B104NA-ZS25XET CY14B104NA-ZS45XE | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| | CY14B104NA-ZS45XET | ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 14 | CY15B101N-ZS60XA | ZW44B | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 15 | CY15B101N-ZS60XAT | ZW44B | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 16 17 | CY15B101N-ZS60XE CY15B101N-ZS60XET | ZW44B ZW44B | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 18 | CY15B102N-ZS60XA | ZW44B | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 19 | CY15B102N-ZS60XAT | ZW44B | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 20 | CY15B102N-ZS60XE | ZW44B | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 21 22 | CY15B102N-ZS60XET CY22392FXA | ZW44B ZZ16 | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 23 | CY22392FXAT | ZZ16 | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 24 | CY22393FXA | ZZ16 | Greatek | No Part Number Change | March 2021 | | October 2021 |
| | CY22393FXAT CY22393FXE | ZZ16 ZZ16 | Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| | CY22393FXET | ZZ16 | Greatek Greatek | No Part Number Change | March 2021 | | October 2021 October 2021 |
| 28 | CY244ZXC-09A | ZZ16 | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| | CY62126EV30LL-45ZSXA | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 30 31 | CY62126EV30LL-45ZSXAT CY62126EV30LL-55ZSXE | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 31 | | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 33 | CY62128ELL-45SXA | SZ324 | Greatek | No Part Number Change | June 2020 | July 2020 | January 2021 |
| 34 | CY62128ELL-45SXAT | SZ324 | Greatek | No Part Number Change | June 2020 | July 2020 | January 2021 |
| 35 36 | CY62128ELL-55SXE CY62128ELL-55SXET | SZ324 SZ324 | Greatek | No Part Number Change No Part Number Change | June 2020 June 2020 | July 2020 July 2020 | January 2021 January 2021 |
| 36 | CY62128ELL-55SXET CY62128ELL-55ZAXE | SZ324 ZB32 | Greatek Greatek | No Part Number Change No Part Number Change | June 2020 March 2021 | | January 2021 October 2021 |
| 38 | CY62128ELL-55ZAXET | ZB32 | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 39 | CY62128EV30LL-45SXA | SZ324 | Greatek | No Part Number Change | June 2020 | July 2020 | January 2021 |
| 40 41 | CY62128EV30LL-45SXAT CY62128EV30LL-45ZAXA | SZ324 ZB32 | Greatek | No Part Number Change No Part Number Change | June 2020 March 2021 | July 2020 April 2021 | January 2021 October 2021 |
| 41 | CY62128EV30LL-45ZAXA CY62128EV30LL-45ZAXAT | ZB32 ZB32 | Greatek Greatek | No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 43 | CY62136FV30LL-45ZSXA | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 44 | CY62136FV30LL-45ZSXAT | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 45 46 | CY62136FV30LL-55ZSXE CY62136FV30LL-55ZSXET | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 October 2021 |
| | CY62136FV30LL-55ZSXET CY62137FV30LL-45ZSXA | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 48 | CY62137FV30LL-45ZSXAT | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 49 | CY62137FV30LL-55ZSXE | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 50 51 | CY62137FV30LL-55ZSXET CY62138FV30LL-45ZAXA | ZW44A ZB32 | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 52 | | ZB32 ZB32 | Greatek | No Part Number Change | March 2021 | | October 2021 October 2021 |
| 53 | CY62146G30-45ZSXA | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 54 | CY62146G30-45ZSXAT | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 55 56 | CY62146G-45ZSXA CY62146G-45ZSXAT | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 57 | CY621472G30-45ZSXA | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 58 | CY621472G30-45ZSXAT | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 59 | CY62147G30-45ZSXA | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 60 61 | CY62147G30-45ZSXAT CY62147G30-55ZSXE | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 62 | | ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| | CY62157ELL-55ZSXE | ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 64 65 | CY62157ELL-55ZSXET CY62157EV30LL-45ZSXA | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 66 | CY62157EV30LL-45ZSXAT | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 67 | CY62157EV30LL-45ZXA | ZT48A | Cypress BKK | No Part Number Change | December 2020 | January 2021 | July 2021 |
| 68 | | ZT48A | Cypress BKK | No Part Number Change | December 2020 | | July 2021 |
| 69 70 | CY62157EV30LL-55ZSXE CY62157EV30LL-55ZSXET | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 71 | CY62157EV30LL-55ZXE | ZT48A | Cypress BKK | No Part Number Change | December 2020 | January 2021 | July 2021 |
| 72 | CY62157EV30LL-55ZXET | ZT48A | Cypress BKK | No Part Number Change | December 2020 | | July 2021 |
| 73 74 | CY62157H30-55ZSXE CY62157H30-55ZSXET | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| 75 | CY62167EV30LL-45ZXA | ZT48A | Cypress BKK | No Part Number Change | December 2020 | | July 2021 |
| 76 | CY62167EV30LL-45ZXAT | ZT48A | Cypress BKK | No Part Number Change | December 2020 | January 2021 | July 2021 |
| | CY7C1011G30-10ZSXA CY7C1011G30-10ZSXAT | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 October 2021 |
| | CY7C1011G30-12ZSXE | ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 80 | CY7C1011G30-12ZSXET | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 81 | CY7C1020CV26-15ZSXE | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 82 83 | CY7C1020CV26-15ZSXET CY7C1021CV26-15ZSXE | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | April 2021 April 2021 | October 2021 October 2021 |
| | | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 |
| 85 | CY7C1021CV33-10ZSXA | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 86 87 | | ZW44A | Greatek | No Part Number Change | March 2021 March 2021 | | October 2021 |
| | | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 89 | CY7C1041G30-10ZSXA | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 90 | CY7C1041G30-10ZSXAT | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 91 92 | CY7C1041G30-10ZSXE CY7C1041G30-10ZSXET | ZW44A ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| | CY7C1041G30-102SXE1 | ZW44A ZW44A | Greatek | No Part Number Change | | | October 2021 October 2021 |
| 94 | CY7C1051H30-10ZSXET | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
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| | CG7921AA | ZW44A ZW44A | Greatek | No Part Number Change | March 2021 | | October 2021 October 2021 |
| 99 | CG7921AAT | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| | CG8839AF CG8839AFT | ZW44B ZW44B | Greatek | No Part Number Change | March 2021 | | October 2021 |
| | CG8839AFT CG8988AA | ZW44B ZW44A | Greatek Greatek | No Part Number Change No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
| 103 | CG8988AAT | ZW44A | Greatek | No Part Number Change | March 2021 | April 2021 | October 2021 |
| 104 | CS7978AA | ZT48A | Cypress BKK | No Part Number Change | December 2020 | January 2021 | July 2021 |
| | CS7978AAT CS8800AA | ZT48A ZW44A | Cypress BKK Greatek | No Part Number Change No Part Number Change | December 2020 March 2021 | January 2021 April 2021 | July 2021 October 2021 |
| | | ZW44A ZW44A | | No Part Number Change | March 2021 March 2021 | | October 2021 October 2021 |
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