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

PRODUCT INFORMATION NOTIFICATION

PIN: PIN200504 **Date:** February 04, 2020

Subject: Marking Change for Select Standard IoT WLCSP Packages

To: FUTURE ELECTRONICS
FUTURE ELE
pcn.system@futureelectronics.com

Change Type: Minor

Description of Change:
Cypress announces a change in the package top-marking for the Standard IoT WLCSP packages. Following are the details of changes.

1) Add Wafer ID Number to the existing marking format to improve unit traceability.
2) Change die location format from "CC-RR" to "CCC-RRR" for some of the packages.
3) Change Assembly lot number from 6 digits to 5 digits for some of the packages.

The full details of the marking change for each package is shown in the attached "IoT WLCSP Marking Change" document.

This is a top marking change only. There are no changes to the assembly process, product specifications and ordering part numbers. Product datasheets remain the same and can be downloaded from the Cypress Website (www.cypress.com).

Benefit of Change:
The addition of Wafer ID number on the product marking will improve unit traceability.

Part Numbers Affected: 56
See the attached 'Affected Parts List' file for a list of all part numbers affected by this change. Note that any new parts that are introduced after the publication of this PIN will include all changes outlined in this PIN.

Approximate Implementation Date:
This change will be implemented effective with the date of this notification. For some of these part numbers, Cypress has existing inventory that is marked with the old marking. Until this inventory is depleted, products with the old marking will continue to ship.

Anticipated Impact:
Products manufactured are completely compatible with existing product from form, fit, functional, parametric, and quality performance perspectives.

Cypress also recommends that customers take this opportunity to review these changes against current application notes, system design considerations and customer environment conditions to assess impact (if any) to their application.

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 pcn_adm@cypress.com.

Sincerely,

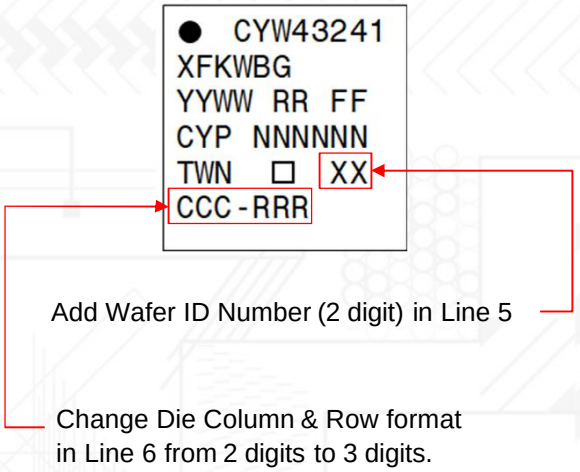
Cypress PCN Administration

IoT WLCSP Standard Product Marking Change

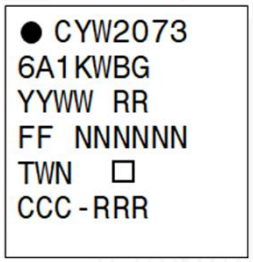
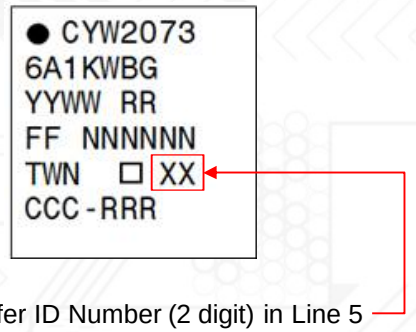
Note:
The diagrams are provided for illustrative purposes only. Please note that the actual unit orientation in carrier may vary depending on package size, type and pin count. Cypress is in compliance with EIA Standard 481. Should you have any other concerns and questions, feel free to contact your local CY sales representative.



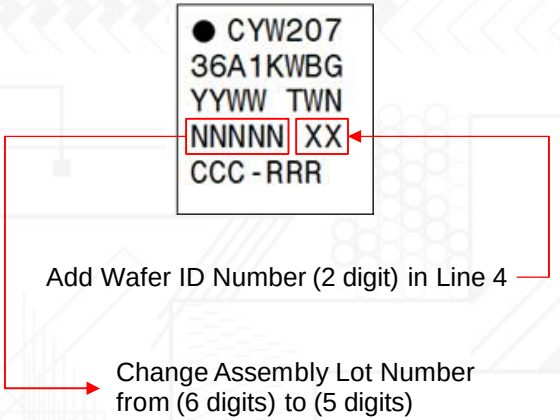
IoT WLCSP Marking Change

No.	Package Description	Existing Marking Format	New Marking Format
1	134 Balls WLCSP 3.31x3.22x0.33 mm (FL0AA) 153 Balls WLCSP 2.87x4.87x0.33 mm (FL0AB) 251 Balls WLCSP 3.76x4.43x0.33 mm (FL0BA) 109 Balls WLCSP 4.08X4.48X0.55 mm (FN0AA) 133 Balls WLCSP 4.89X5.33X0.55 mm (FN0AB) 140 Balls WLCSP 4.47x5.27x0.60 mm (FN0AD) 141 Balls WLCSP 4.47x5.67x0.55 mm (FN0AF) 145 Balls WLCSP 4.87x5.41x0.55 mm (FN0AG) 151 Balls WLCSP 4.91x5.85x0.55 mm (FN0AH) 182 Balls WLCSP 6.57x5.62x0.55 mm (FN0AJ) 192 Balls WLCSP 4.87x7.67x0.55 mm (FN0AK) 194 Balls WLCSP 4.97x7.50x0.55 mm (FN0AL) 128 Balls WLCSP 4.51x5.43x0.60 mm (FN0AN) 106 Balls WLCSP 3.76x4.43x0.53 mm (FN0AR) 208 Balls WLCSP 4.08x4.48x0.41 mm (FN0BA) 286 Balls WLCSP 4.87x5.413x0.41 mm (FN0BC) 293 Balls WLCSP 5.88x4.40x0.41 mm (FN0BD) 316 Balls WLCSP 4.907x5.848x0.33 mm (FN0CA) 395 Balls WLCSP 4.87x7.67x0.33 mm (FN0CC) 63 Balls WLCSP 2.87x4.87x0.55 mm (FN63A) 74 Balls WLCSP 2.87x4.87x0.55 mm (FN74A)	Typical Example  ● CYW43241 XFKWBG YYWW RR FF CYP NNNNNN TWN □ CC-RR **Line 1 & 2: Marketing Part Number** **Line 3: YYWW RR FF** YYWW: Cypress Date Code RR: BE Part Revision (1 or 2 Character) FF: Fab Location (2 Character) **Line 4: CYP NNNNNN** CYP: Cypress NNNNNN: Assembly Lot No. **Line 5: TWN** TWN: Country of Origin : PbFree **Line 6: CC-RR** CC: Column (2 digit) RR: Row (2 digit)	Typical Example  ● CYW43241 XFKWBG YYWW RR FF CYP NNNNNN TWN □ XX CCC-RRR Add Wafer ID Number (2 digit) in Line 5 Change Die Column & Row format in Line 6 from 2 digits to 3 digits.

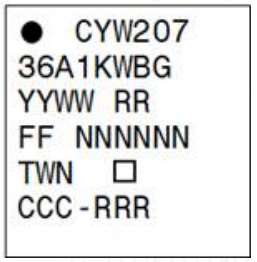
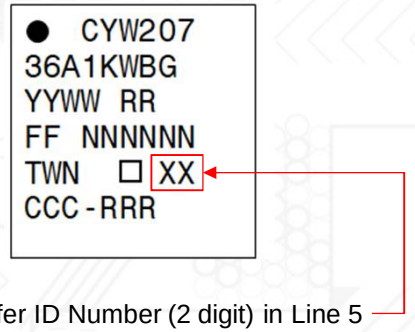
IoT WLCSP Marking Change

No.	Package Description	Existing Marking Format	New Marking Format
2	125 Balls WLCSP 2.518x2.770x0.42 mm (FN0AM) 36 Balls WLCSP 2.51x2.77x0.55 mm (FN36B)	Typical Example  **Line 1 & 2: Marketing Part Number** **Line 3: YYWW RR** YYWW: Cypress Date Code RR: BE Part Revision (1 or 2 Character) **Line 4: FF NNNNNN** FF: Fab Location (2 Character) NNNNNN: Assembly Lot No. **Line 5: TWN** TWN: Country of Origin : PbFree **Line 6: CCC-RRR** CCC: Column (3 digit) RRR: Row (3 digit)	Typical Example 

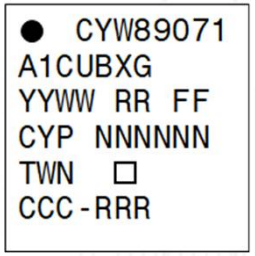
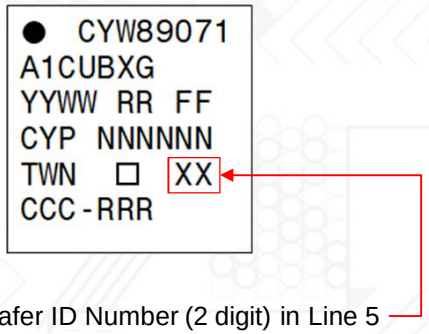
IoT WLCSP Marking Change

No.	Package Description	Existing Marking Format	New Marking Format
3	80 Balls WLCSP 2.165x2.184x0.42 mm (FN80A)	Typical Example  **Line 1 & 2: Marketing Part Number** **Line 3: YYWW TWN** YYWW: Cypress Date Code TWN: Country of Origin **Line 4: NNNNNN:** Assembly Lot No. (6 digits) **Line 5: CCC-RRR** CCC: Column (3 digit) RRR: Row (3 digit)	Typical Example 

IoT WLCSP Marking Change

No.	Package Description	Existing Marking Format	New Marking Format
4	69 Balls WLCSP 4.53x2.93x0.55 mm (FN69A)	Typical Example  **Line 1 & 2: Marketing Part Number** **Line 3: YYWW RR** YYWW: Cypress Date Code RR: BE Part Revision (1 or 2 Character) **Line 4: FF NNNNNN** FF: Fab Location (2 Character) NNNNNN: Assembly Lot No. **Line 5: TWN** TWN: Country of Origin : PbFree **Line 6: CCC-RRR** CCC: Column (3 digit) RRR: Row (3 digit)	Typical Example 

IoT WLCSP Automotive Marking Change

No.	Package Description	Existing Marking Format	New Marking Format
5	42 Balls WLCSP 3.01x2.50x0.60 mm (FN42C)	Typical Example  **Line 1 & 2: Marketing Part Number** **Line 3: YYWW RR FF** YYWW: Cypress Date Code RR: BE Part Revision (1 or 2 Character) FF: Fab Location (2 Character) **Line 4: CYP NNNNNN** CYP: Cypress NNNNNN: Assembly Lot No. **Line 5: TWN** TWN: Country of Origin : PbFree **Line 6: CCC-RRR** CCC: Column (2 digit) RRR: Row (2 digit)	Typical Eaxmple  Add Wafer ID Number (2 digit) in Line 5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Item	Marketing Part Number	Package Code	Package Description
1	CYW20707A2KUBGT	FN36B	36-Ball WLCSP 2.51x2.77x0.55 mm
2	CYW20707VA1PKWBGT	FN0AM	125-Ball WLCSP 2.518x2.770x0.42 mm
3	CYW20707VA2PKWBGT	FN0AM	125-Ball WLCSP 2.518x2.770x0.42 mm
4	CYW20710A1KUBXGT	FN42C	42-Ball WLCSP 3.01x2.50x0.60 mm
5	CYW20713A1KUBXGT	FN42C	42-Ball WLCSP 3.01x2.50x0.60 mm
6	CYW20715A1KUBXGT	FN42C	42-Ball WLCSP 3.01x2.50x0.60 mm
7	CYW20719B1KWB9GT	FL0AA	134-Ball WLCSP 3.31x3.22x0.33 mm
8	CYW20719B2KWB9GT	FL0AA	134-Ball WLCSP 3.31x3.22x0.33 mm
9	CYW20721B2KWB9GT	FL0AA	134-Ball WLCSP 3.31x3.22x0.33 mm
10	CYW20736A1KWBGT	FN80A	80-Ball WLCSP 2.165x2.184x0.42 mm
11	CYW43012C0WKWBGT	FL0BA	251-Ball WLCSP 3.76x4.43x0.33 mm
12	CYW43012TC0EKUBGT	FN0AR	106-Ball WLCSP 3.76x4.43x0.53 mm
13	CYW43241XFKWBGT	FN0BD	293-Ball WLCSP 5.88x4.40x0.41 mm
14	CYW4329FKUBGT	FN0AJ	182-Ball WLCSP 6.57x5.62x0.55 mm
15	CYW43303KUBGT	FN0AB	133-Ball WLCSP 4.89X5.33X0.55 mm
16	CYW4330FKUBGT	FN0AB	133-Ball WLCSP 4.89X5.33X0.55 mm
17	CYW4330XKUBGT	FN0AB	133-Ball WLCSP 4.89X5.33X0.55 mm
18	CYW43340HKUBGT	FN0AF	141-Ball WLCSP 4.47x5.67x0.55 mm
19	CYW43340XKUBGT	FN0AF	141-Ball WLCSP 4.47x5.67x0.55 mm
20	CYW4334WKUBGT	FN0AA	109-Ball WLCSP 4.08X4.48X0.55 mm
21	CYW4334XKWBGT	FN0BA	208-Ball WLCSP 4.08x4.48x0.41 mm
22	CYW43353LIUBGT	FN0AG	145-Ball WLCSP 4.87x5.41x0.55 mm
23	CYW43362KUBGT	FN69A	69-Ball WLCSP 4.53x2.93x0.55 mm
24	CYW43362SKUBGT	FN69A	69-Ball WLCSP 4.53x2.93x0.55 mm
25	CYW43364KUBGT	FN74A	74-Ball WLCSP 2.87x4.87x0.55 mm
26	CYW4339XKUBGT	FN0AG	145-Ball WLCSP 4.87x5.41x0.55 mm
27	CYW4339XKWBGT	FN0BC	286-Ball WLCSP 4.87x5.413x0.41 mm
28	CYW43438KUBGT	FN63A	63-Ball WLCSP 2.87x4.87x0.55 mm
29	CYW43438LKUBGT	FN63A	63-Ball WLCSP 2.87x4.87x0.55 mm
30	CYW4343W1KUBGT	FN74A	74-Ball WLCSP 2.87x4.87x0.55 mm
31	CYW4343WKUBGT	FN74A	74-Ball WLCSP 2.87x4.87x0.55 mm
32	CYW4343WKWBGT	FL0AB	153-Ball WLCSP 2.87x4.87x0.33 mm
33	CYW43455LXKUBGT	FN0AD	140-Ball WLCSP 4.47x5.27x0.60 mm
34	CYW43455XKUBGT	FN0AD	140-Ball WLCSP 4.47x5.27x0.60 mm
35	CYW4354KKWBGT	FN0CC	395-Ball WLCSP 4.87x7.67x0.33 mm
36	CYW4354XKUBGT	FN0AK	192-Ball WLCSP 4.87x7.67x0.55 mm
37	CYW4356XKUBGT	FN0AK	192-Ball WLCSP 4.87x7.67x0.55 mm
38	CYW4356XKWBGT	FN0CC	395-Ball WLCSP 4.87x7.67x0.33 mm
39	CYW43732XKUBGT	FN0AN	128-Ball WLCSP 4.51x5.43x0.60 mm
40	CYW4373IUBGT	FN0AN	128-Ball WLCSP 4.51x5.43x0.60 mm
41	CYW43903KUBGT	FN0AH	151-Ball WLCSP 4.91x5.85x0.55 mm
42	CYW43907KWBGT	FN0CA	316-Ball WLCSP 4.907x5.848x0.33 mm
43	CYW4390DKWBGT	FN0BC	286-Ball WLCSP 4.87x5.413x0.41 mm
44	CYW54907KWBGT	FN0CA	316-Ball WLCSP 4.907x5.848x0.33 mm
45	CYW88335L2CUBGT	FN0AG	145-Ball WLCSP 4.87x5.41x0.55 mm
46	CYW88359CUBGT	FN0AL	194-Ball WLCSP 4.97x7.50x0.55 mm

47	CYW88373CUBGT	FN0AN	128-Ball WLCSP 4.51x5.43x0.60 mm
48	CG8674BAT	FN0AK	192-Ball WLCSP 4.87x7.67x0.55 mm
49	CG8882AMT	FN0CA	316-Ball WLCSP 4.907x5.848x0.33 mm
50	CG8883AMT	FL0AB	153-Ball WLCSP 2.87x4.87x0.33 mm
51	CG8921AMT	FN0AK	192-Ball WLCSP 4.87x7.67x0.55 mm
52	CG8947ATT	FN0AF	141-Ball WLCSP 4.47x5.67x0.55 mm
53	CG9052AMT	FN0AD	140-Ball WLCSP 4.47x5.27x0.60 mm
54	CG9055AMT	FN63A	63-Ball WLCSP 2.87x4.87x0.55 mm
55	CG9078AMT	FN63A	63-Ball WLCSP 2.87x4.87x0.55 mm
56	CG9146AMT	FL0AA	134-Ball WLCSP 3.31x3.22x0.33 mm