

Product/process change notification

PCN N° 2021-142-A

Dear customer,

Please find attached our Infineon Technologies AG PCN:

Capacity expansion by introduction of an additional assembly and final test location for BGA 524N6

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **2021-12-23**
- Infineon aligns with the widely recognized JEDEC STANDARD “**JESD46**“, which stipulates: **“Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.”**

Your prompt reply will help Infineon to assure a smooth and well-executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.



On 16 April 2020, Infineon acquired Cypress.
We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.
For further details, please visit our website:
<https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/>

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Registered Office: Neubiberg
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► **Products affected**

Please refer to attached affected product list 1_cip21142_A

► **Detailed change information**

Subject Capacity expansion by introduction of an additional assembly and final test location at JCET Group Co., Ltd, Jiangyin, China for BGA 524N6

Reason Expansion of assembly and test location to assure continuity and increase supply flexibility.

Description

<u>Old</u>	<u>New</u>
<ul style="list-style-type: none"> ■ Infineon Melaka, Infineon Technologies (Malaysia) Sdn. Bhd., Melaka, Malaysia 	<ul style="list-style-type: none"> ■ Infineon Melaka, Infineon Technologies (Malaysia) Sdn. Bhd., Melaka, Malaysia <i>or</i> ■ Subcon JCET, JCET Group Co., Ltd, Jiangyin, China
<ul style="list-style-type: none"> ■ Infineon Melaka packing = Tape & Reel 15,000pcs 	<ul style="list-style-type: none"> ■ Infineon Melaka packing = Tape & Reel 15,000pcs <i>or</i> ■ Subcon JCET packing = Tape & Reel 12,000pcs

► **Product identification**

1. Internal traceability: Baunumber, lot number, date code
2. External traceability: Marking and SP number (Please refer to attached 3_cip21142_A)

► **Impact of change**

NO change on electrical and thermal performance
NO impact on the device reliability as proven via product qualification
NO change in quality and device processability at customer end.
 Assembly processes are optimized to meet product performance according to already applied Infineon specification.

- The package outer dimension remains unchanged
- Product datasheet remain unchanged

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► Attachments

1_cip21142_A	affected product list
2_cip21142_A	qualification report
3_cip21142_A	additional information

► Time schedule

■ Final qualification report	available
■ First samples available	available
■ Intended start of delivery	2022-02-15

If you have any questions, please do not hesitate to contact your local sales office.

RESTRICTED

Qualification Test Report



JCAP/JCET Assembly platform qualification

Final Assessment of Qualification Results: PASS

Date: 2018-05-16

Stress test	Abbreviation	Test conditions	Readout	BGA 729N6	BGA 824N6	BGA 824N6	BGA 5L1BN6	BGA 5M1BN6	BGSA14GN10
				fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed
MSL Preconditioning JESD22-A113	PC	MSL-1: Ta = 85 °C, 85% RH, t = 168 h 3 x reflow at 260 °C	after preconditioning	0 / 90	0 / 74	0 / 74	0 / 70	0 / 90	0 / 74
High Temperature Storage Life JESD22-A103	HTSL	Ta = 150 °C	1000 h	0 / 25	0 / 25	0 / 25	0 / 25	0 / 25	0 / 25
Humidity Bias (Highly Accelerated Temperature and Humidity Stress) JESD22-A110	HAST	with preconditioning Ta = 130 °C, 85% RH, V = Vcc max	96 h	0 / 30	0 / 24	0 / 25	0 / 20	0 / 40	0 / 24
Temperature Humidity Bias JESD22-A118	THB	with preconditioning	1000 h	covered by HAST					
Temperature Cycling JESD22-A104	TC	with preconditioning Ta = -55 °C to 150 °C, 30' per cycle	1000 x	0 / 30	0 / 25	0 / 25	0 / 25	0 / 25	0 / 25
Unbiased Temperature/Humidity JESD22-A118	UHAST	with preconditioning Ta=130 °C, 85% RH	96 h	0 / 30	0 / 25	0 / 25	0 / 25	0 / 25	0 / 25
Solder Ball Shear JESD22-B117	SBS	> 2,5 g/mil ²		10 bumps PASS	10 bumps PASS	10 bumps PASS	10 bumps PASS	10 bumps PASS	10 bumps PASS
Solderability JESD22-B102	SD	solder pot		0 / 22	0 / 22	0 / 22	0 / 22	0 / 22	0 / 22
Physical dimensions	PD	acc. datasheet		0 / 30			0 / 30		0 / 30



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Sales name	SP number	OPN	Package
BGA 524N6 E6327	SP001088394	BGA524N6E6327XTSA1	TSNP-6-2