



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road, San Jose, CA - 95138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1902-01	DATE: 12-Mar-2019	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: 4DB0226KB0AVG 4DB0226KB0AVG8 4DB0226KB0AVG/M 4DB0226KB0AVG8/M		☐ Product Mark Lot # will have: ☒ Back Mark "RC" prefix for ASECL, Taiwan ☐ Date Code "B" prefix for SCK, Korea ☐ Other and substrate material used is traceable from lot#
Date Effective: 12-Jun-2019		
Contact: IDT PCN DESK	Attachment: ☒ Yes ☐ No	
E-mail: pcndesk@idt.com	Samples: Please contact your local sales representative for sample request.	

DESCRIPTION AND PURPOSE OF CHANGE:

- | | |
|--|--|
| ☐ Die Technology | |
| ☐ Wafer Fabrication Process | This notification is to advise our customers that IDT is adding ASECL as an alternate assembly and add UMTC as alternate substrate at the existing assembly STATS ChipPAC Korea (SCK). |
| ☐ Assembly Process | |
| ☐ Equipment | |
| ☒ Material | There is no change to the moisture performance. |
| ☐ Testing | |
| ☒ Manufacturing Site | Attachment I details the qualification results. |
| ☐ Data Sheet | |
| ☐ Other | |

RELIABILITY/QUALIFICATION SUMMARY:

Refer to qualification data shown in Attachment I.

CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: _____	☐ <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

CUSTOMER COMMENTS:

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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ATTACHMENT I - PCN # : A1902-01

PCN Type: Manufacturing Site - Alternate Assembly Location & Alternate material sets

Data Sheet Change: None

No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to advise our customers that IDT is adding ASECL as an alternate assembly and add UMTC as alternate substrate at the existing assembly STATS ChipPAC Korea (SCK).

The material set details of the current and alternate assembly location is as shown in Table 1.

There is no change to the moisture performance.

Table 1: Assembly Material Sets for The Existing and Alternate Assembly Location

	Existing Assembly (ASEK, Taiwan)	Existing Assembly (SCK, Korea)	Alternate Assembly (ASECL, Taiwan)	Alternate Substrate (SCK, Korea)
Die Bump	Cu/Ni/SnAg1.8 (40/3/27um)	Cu/Ni/SnAg1.8 (40/3/27um)	Cu/Ni/SnAg1.8 (40/3/27um)	Cu/Ni/SnAg1.8 (40/3/27um)
Mold Compound	EME-G311A Type C	KEG-1250FC-K	EME-G311A Type C	KEG-1250FC-K
Substrate	UMTC HL832NS/AUS410	Kinsus HL832NS/AUS410	UMTC HL832NS/AUS410	UMTC HL832NS/AUS410
Solder Balls	Sn/Ag1.2/Cu0.50/Ni0.05	Sn/Ag1.2/Cu0.50/Ni0.05	Sn/Ag1.2/Cu0.50/Ni0.05	Sn/Ag1.2/Cu0.50/Ni0.05



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ATTACHMENT I - PCN # : A1902-01

Qualification Information and Qualification Data:

Affected Packages: FCCSP-53

Assembly Material: Shown on page 2 of this attachment.

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Qualification Vehicle: FCCSP-53

(I) ASECL, Taiwan

Test Description	Test Method	Test Results (Rej / SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A108	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

* Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

(II) SCK, Korea

Test Description	Test Method	Test Results (Rej / SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A108	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

* Tests were subjected to Preconditioning per JESD22-A113 prior to stress test