

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

PRODUCT/PROCESS CHANGE NOTICE (PCN)						
PCN #: A190 Product Affected			13-Sep-2019 ected part#)	MEANS OF Di ☐ Product Ma ☐ Back Mark ☐ Date Code ☐ Other	Lot # will have	HANGED DEVICES: e: ATK, Korea and rial used is traceable from
Date Effective:	13-Dec-2019					
Contact:	IDT PCN DESK			Attachment:	Yes	☐ No
E-mail:	idt-pcn@lm.renesas.	<u>com</u>			se contact your local ple request.	sales representative for
DESCRIPTION	AND PURPOSE OF C	CHANGE:				
 □ Die Technolog □ Wafer Fabrica □ Assembly Prod □ Equipment ■ Material □ Testing ■ Manufacturing □ Data Sheet □ Other 	tion Process cess	alternate a assembly There is n		d SIMMTECH a C Korea (SCK) moisture perform	as alternate substrate . mance.	AMKOR, Korea as an at the existing
	QUALIFICATION SU ation data shown in Atta		:			
IDT records indi to grant approval it will be assume IDT reserves the	cate that you require wr l or request additional ir d that this change is acc right to ship either vers sion has been depleted.	itten notific nformation. eptable.	cation of this cha If IDT does not	receive acknow	ledgement within 30	days of this notice
Customer:			_ 🗆	Approval	for shipments pr	ior to effective date.
Name/Date:			E-	Mail Address:	_	
Title: Pho			Phone# /Fax# :			
CUSTOMER COMMENTS:						
IDT ACKNOWI	LEDGMENT OF REC	'FIPT·				
	LEDGMENT OF REC			DATE:		



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN #: A1908-01

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 AMKOR, Korea as an alternate assembly and add SIMMTECH 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 (ASECL, Taiwan) + UMTC substrate	Existing Assembly (SCK, Korea) + Kinsus substrate	Alternate Assembly (AMKOR, Korea) + UMTC substrate	Alternate Substrate (SCK, Korea) + SIMMTECH substrate
Die Bump	Copper Pillar 40Cu/3Ni/27SnAg	Copper Pillar 40Cu/3Ni/27SnAg	Copper Pillar 40Cu/3Ni/27SnAg	Copper Pillar 40Cu/3Ni/27SnAg
Mold Compound	EME-G311A Type C	KE-G1250FC-K	MUF 32	KE-G1250FC-K
Substrate	HL830NS+SR1	HL830NS+SR1	HL830NS+SR1	HL830NS+SR1
Solder Balls	LF35	LF35	LF35	LF35



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN #: A1908-01

Qualification Information and Qualification Data:

Affected Packages: FCCSP-253

Assembly Material: Shown on page 2 of this attachment.

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

Qualification Vehicle: FCCSP-253

(I) AMKOR, Korea

Test Description	Test Method	Test Results (Rej / SS)		
Test Description		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-A118	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	-

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

(II) SCK, Korea

Tost Description	Test Method	Test Results (Rej / SS)		
Test Description	Test Wiethou	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-A110	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	-

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



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN #: A1908-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
4DB0232KC2AVG	4DB0232KC2AVG/M	4RCD0232KC1ATG	4RCD0232KC1ATG/M
4DB0232KC2AVG8	4DB0232KC2AVG8/M	4RCD0232KC1ATG8	4RCD0232KC1ATG8/M