Integrated Device Technology, Inc. 6024 Silver Creek Valley Road, San Jose, CA - 95138 PRODUCT/PROCESS CHANGE NOTICE (PCN)				
PCN #: A1406-01 (R1)	DATE: 15-Oct-2015	MEANS OF DISTI	NGUISHING CHANGED DEVICES:	
Product Affected: VFQFPN-28, VFQ Refer to Attachment II for the a	FPN-32, VFQFPN-36 affected part numbers	 Product Mark Back Mark Date Code Other 	Lot # will have: "P" prefix for Amkor, Philippines "RC" prefix for ASECL, Taiwan	
Date Effective: 7-Jul-2015				
Contact: IDT PCN DESK		Attachment:	Yes No	
E-mail: <u>pcndesk@idt.com</u>		Samples: Please co sample re	ontact your local sales representative for equest.	
DESCRIPTION AND PURPOSE OF C	HANGE:			
 □ Die Technology □ Wafer Fabrication Process □ Assembly Process □ Equipment Revision 1: This revised notice is to detail the wire type by device. Selective devices will have changes on the wire from Au to PdCu due to typo on the orignal PCN. Refer to Table 2. PCN effective date remains unchanged. 				
 Material Testing Manufacturing Site 		lvise our customers that IDT is adding Amkor, Philippines i, Taiwan (ASECL) as alternate Assembly facilities.		
Data SheetOther	There is no change to the	moisture performance	e.	
	Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.			
RELIABILITY/QUALIFICATION SU	MMARY:			
Refer to qualification data shown in Atta	chment 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:	C] Approval for	shipments prior to effective date.	
Name/Date:	E-	-Mail Address:		
Title:	PI	none# /Fax# :		
CUSTOMER COMMENTS:				
IDT ACKNOWLEDGMENT OF RECEIPT:				
RECD. BY:		DATE:		



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1406-01 (R1)

PCN Type:	Manufacturing Site - Alternate Assembly Locations
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, Philippines (ATP) and ASE Chungli (ASECL) as alternate Assembly facilities. Presently, ATP and ASECL are qualified IDT Subcontractor.

The material set details of the current and alternate assembly locations is as shown in Table 2. The die attach, wire type and mold compound used at the alternate assembly are qualified IDT materials. There is no change from the existing qualified lead frame material and lead finish for the alternate assembly locations.

There is no change to the moisture performance.

Table 1: The Existing and Alternate Assembly Locations

	Existing Assembly	Alternate Assembly	
Package	ATK - Amkor, Korea	ATP - Amkor, Philippines	ASECL - ASECL, Taiwan
VFQFPN-28 VFQFPN-32 VFQFPN-36	Х	Х	Х

Note: X denote qualified assembly location

Table 2: Assembly Material Sets for The Existing and Alternate Assembly Locations

	Existing Assembly	Alternate Assembly	
Material Set / Assembly	ATK - Amkor, Korea	ATP - Amkor, Philippines	ASECL - ASECL, Taiwan
Die Attach	CRM1085A	CRM1085A	EN4900G
Wire ¹	Au wire	PdCu wire	PdCu wire
Wire ²	PdCu wire	PdCu wire	PdCu wire
Mold Compound	G700, G631BQF	G700, G631BQF	G700LA

Note:

1. For VFQFPN-36 devices F1100NBGI, F1102NBGI, F1150NBGI, F1152NBGI, F1162NBGI, F1350NBGI, F1370NBGI and VFQFPN-28 device F1200NBGI.

2. For VFQFPN-32 devices F1240NBGI, F1241NBGI.



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1406-01 (R1)

Qualification Information and Qualification Data:

- Affected Packages: VFQFPN-28, VFQFPN-32, VFQFPN-36
- Assembly Material: The affected package type is using ATP and ASECL standard materials shown on page 2 of this attachment.
- Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Qualification Vehicle: Device F1350NBGI, VFQFPN-36 (4 lots)

Test Description	Test Method	Test Results (Rej / SS)
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	0/30, 0/30, 0/30, 0/30
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/30, 0/30, 0/30, 0/30
High Temperature Storage Test (150°C, 1000 hours)	JESD22-A103	0/30, 0/30, 0/30, 0/30

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



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN # : A1406-01 (R1)

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
F1100NBGI	F1150NBGI8	F1200NBGI	F1241NBGI8
F1100NBGI8	F1152NBGI	F1200NBGI8	F1350NBGI
F1102NBGI	F1152NBGI8	F1240NBGI	F1350NBGI8
F1102NBGI8	F1162NBGI	F1240NBGI8	F1370NBGI
F1150NBGI	F1162NBGI8	F1241NBGI	F1370NBGI8