



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1107-01 Product Affected: Refer to the attached list of products transferring from OSEP to OSET Date Effective: 10/22/2011	DATE: 7/22/2011	MEANS OF DISTINGUISHING CHANGED DEVICES: <input checked="" type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark Lot # will have "A" prefix <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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Contact: PS Tow Title: Director, Product Quality Phone #: (408) 284-8206 Fax #: (408) 284-1450 E-mail: PSTow@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Please contact your local sales representative for sample request & availability.
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other	This is an advance notification to advise our customers that IDT received a formal notice from Orient Semiconductor Electronics, Inc (OSE) that their assembly facility in the Philippines (OSEP) will cease operation on September 30, 2011. Based on the notification received from OSE, IDT is transferring the affected products assembled at OSEP to OSET (Orient Semiconductor Electronics, Inc. - Taiwan). Attachment 1 outlines the detailed transfer plan and qualification plan Attachment 2 is the list of affected products A final PCN will be issued once qualification is completed. The sample availability date and qualification data will be shown on the Final PCN.
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RELIABILITY/QUALIFICATION SUMMARY:

There is no expected change to the product quality or reliability performance.

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: _____	<input type="checkbox"/> <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 1 - PCN # : A1107-01 - Advance Notice

PCN Type: Assembly Transfer

Data Sheet Change: None.

Detail Of Change:

This is an advance notification to advise our customers that IDT received a formal notice from Orient Semiconductor Electronics, Inc (OSE) that their assembly facility in the Philippines (OSEP) will cease operation on September 30, 2011. Based on the notification received from OSE, IDT is transferring the affected products assembled at OSEP to OSET (Orient Semiconductor Electronics, Inc. - Taiwan).

Attachment 1 outlines the detailed transfer plan and qualification plan

Attachment 2 is the list of affected products

A final PCN will be issued once qualification is completed. The sample availability date and qualification data will be shown on the Final PCN.

There will be no change in fit, form and function of the products including RoHS compliance and MSL rating.

During the transition period, IDT will continue to support customer shipments with inventory build at OSEP facility or previously qualified assembly subcontractors and does not anticipate any impact on the product availability.

We request you to acknowledge receipt of this notification within 30 days of the date of this PCN notification. If you require samples to conduct an evaluation, please make your sample request with in 30 days as samples are not built ahead of the change. Please contact your IDT sales representative to request samples or for additional information.



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN # : A1107-01 - Advance Notice

Assembly transfer from OSEP to OSET consists of two (2) package groups.

IDT has developed specific Qualification plans to qualify each package group .
The qualification plan details are as follow:

Group 1

These package types will transfer to OSET with the same equipment, process and material set as is currently used in OSEP

Affected Packages: 300 mils SOJ 28 (PJG28), 300 mils SOJ 32 (PJG32)
400 mils SOJ 28 (PBG28), 400 mils SOJ 32 (PBG32)
400 mils SOJ 36 (PBG36), 400 mils SOJ 44 (PBG44)

Assembly Material: The affected package types will be assembled at OSET using the same mold compound and die attach materials currently used in OSEP

Sample Availability: Please contact your IDT sales representative for your sample request and availability.

Qualification Test Plan:

Following tests will be performed on each package family (300 and 400 mils SOJ)

Test Description	Test Method	Sample Size
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110	25/0
* Temperature Cycling (-55°C to 125°C, 700 cycle)	JESD22-A104	25/0
* Auto Clave (121 °C, 2 ATM, 168 Hrs)	JESD22-A102	25/0
High Temperature Storage Test (150°C, 1000 hours)	JESD22-A103	25/0
Physical Dimensions	JESD22-B100	30/0
Internal Visual Inspection	MIL-STD-883, M 2010	5/0
External Visual Inspection	JESD22-B101	25/0
Resistance to Solvents	MIL-STD-883, M 2015	3/0
Ball Shear Test	JESD22-B116	5/0
Solderability Test	JESD22-B102	5/0
Bond Pull Test	MIL-STD-883, M 2011	5/0
X-ray Examination	MIL-STD-883, M 2015	25/0
Moisture Sensitivity Classification	J-STD-020	50/0

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113.



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Group 2

Are for packages that will be qualified at OSET.

- Affected Packages:** QSOP - DJG48
QVSOP - DMG40, DMG80
- Assembly Material:** The affected package types will be assembled using OSET standard mold compound and die attach materials.
- Sample Availability:** Please contact your local IDT sales representative for your sample request and availability.

Qualification Test Plan:

Following tests will be performed on each package family (QSOP and QVSOP)

Test Description	Test Method	Sample Size
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110	25/0
* Temperature Cycling (-55°C to 125°C, 700 cycle)	JESD22-A104	25/0
* Auto Clave (121 °C, 2 ATM, 168 Hrs)	JESD22-A102	25/0
High Temperature Storage Test (150°C, 1000 hours)	JESD22-A103	25/0
Physical Dimensions	JESD22-B100	30/0
Internal Visual Inspection	MIL-STD-883, M 2010	5/0
External Visual Inspection	JESD22-B101	25/0
Resistance to Solvents	MIL-STD-883, M 2015	3/0
Ball Shear Test	JESD22-B116	5/0
Solderability Test	JESD22-B102	5/0
Bond Pull Test	MIL-STD-883, M 2011	5/0
X-ray Examination	MIL-STD-883, M 2015	25/0
Moisture Sensitivity Classification	J-STD-020	50/0

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113.



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 2 - PCN # : A1107-01 - Advance Notice Affected IDT Part # List

<u>Part #</u>	<u>Package Type</u>	<u>Group</u>
71016S12YG	SOJ-44	1
71016S12YG8	SOJ-44	1
71016S15YG	SOJ-44	1
71016S15YG8	SOJ-44	1
71016S15YGI	SOJ-44	1
71016S15YGI8	SOJ-44	1
71016S20YG	SOJ-44	1
71016S20YG8	SOJ-44	1
71016S20YGI	SOJ-44	1
71016S20YGI8	SOJ-44	1
71024S12TYG	SOJ-32	1
71024S12TYG8	SOJ-32	1
71024S12TYGI	SOJ-32	1
71024S12TYGI8	SOJ-32	1
71024S12YG	SOJ-32	1
71024S12YG8	SOJ-32	1
71024S12YGI	SOJ-32	1
71024S12YGI8	SOJ-32	1
71024S15TYG	SOJ-32	1
71024S15TYG8	SOJ-32	1
71024S15TYGI	SOJ-32	1
71024S15TYGI8	SOJ-32	1
71024S15YG	SOJ-32	1
71024S15YG8	SOJ-32	1
71024S15YGI	SOJ-32	1
71024S15YGI8	SOJ-32	1
71024S20TYG	SOJ-32	1
71024S20TYG8	SOJ-32	1
71024S20TYGI	SOJ-32	1
71024S20TYGI8	SOJ-32	1
71024S20Y	SOJ-32	1
71024S20YG	SOJ-32	1
71024S20YG8	SOJ-32	1
71024S20YGI	SOJ-32	1
71024S20YGI8	SOJ-32	1
71024S25TYG	SOJ-32	1
71024S25TYG8	SOJ-32	1
71024S25TYGI	SOJ-32	1
71024S25TYGI8	SOJ-32	1
71024S25YG	SOJ-32	1
71024S25YG8	SOJ-32	1
71124S12YG	SOJ-32	1
71124S12YG8	SOJ-32	1
71124S15YG	SOJ-32	1
71124S15YG8	SOJ-32	1



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<u>Part #</u>	<u>Package Type</u>	<u>Group</u>
71124S15YGI	SOJ-32	1
71124S15YGI8	SOJ-32	1
71124S20YG	SOJ-32	1
71124S20YG8	SOJ-32	1
71124S20YGI	SOJ-32	1
71124S20YGI8	SOJ-32	1
71256L20YG	SOJ-28	1
71256L20YG8	SOJ-28	1
71256L20YGI	SOJ-28	1
71256L20YGI8	SOJ-28	1
71256L25YG	SOJ-28	1
71256L25YG8	SOJ-28	1
71256L25YGI	SOJ-28	1
71256L25YGI8	SOJ-28	1
71256L35YG	SOJ-28	1
71256L35YG8	SOJ-28	1
71256L35YGI	SOJ-28	1
71256L35YGI8	SOJ-28	1
71256SA12YG	SOJ-28	1
71256SA12YG8	SOJ-28	1
71256SA15YG	SOJ-28	1
71256SA15YG8	SOJ-28	1
71256SA15YGI	SOJ-28	1
71256SA15YGI8	SOJ-28	1
71256SA20YG	SOJ-28	1
71256SA20YG8	SOJ-28	1
71256SA20YGI	SOJ-28	1
71256SA20YGI8	SOJ-28	1
71256SA25YG	SOJ-28	1
71256SA25YG8	SOJ-28	1
71256TTSA12YG	SOJ-28	1
71256TTSA12YG8	SOJ-28	1
71256TTSA15YG	SOJ-28	1
71256TTSA15YG8	SOJ-28	1
7164L20YG	SOJ-28	1
7164L20YG8	SOJ-28	1
7164L20YGI	SOJ-28	1
7164L20YGI8	SOJ-28	1
7164L25YG	SOJ-28	1
7164L25YG8	SOJ-28	1
7164L25YGI	SOJ-28	1
7164L25YGI8	SOJ-28	1
7164S20YG	SOJ-28	1
7164S20YG8	SOJ-28	1
7164S20YGI	SOJ-28	1



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Affected IDT Part # List

<u>Part #</u>	<u>Package Type</u>	<u>Group</u>
7164S20YGI8	SOJ-28	1
7164S25YG	SOJ-28	1
7164S25YG8	SOJ-28	1
7164S25YGI	SOJ-28	1
7164S25YGI8	SOJ-28	1
71V016SA10YG	SOJ-44	1
71V016SA10YG8	SOJ-44	1
71V016SA12YG	SOJ-44	1
71V016SA12YG8	SOJ-44	1
71V016SA12YGI	SOJ-44	1
71V016SA12YGI8	SOJ-44	1
71V016SA15YG	SOJ-44	1
71V016SA15YG8	SOJ-44	1
71V016SA15YGI	SOJ-44	1
71V016SA15YGI8	SOJ-44	1
71V016SA20YG	SOJ-44	1
71V016SA20YG8	SOJ-44	1
71V016SA20YGI	SOJ-44	1
71V016SA20YGI8	SOJ-44	1
71V124SA10TYG	SOJ-32	1
71V124SA10TYG8	SOJ-32	1
71V124SA10YG	SOJ-32	1
71V124SA10YG8	SOJ-32	1
71V124SA12TYG	SOJ-32	1
71V124SA12TYG8	SOJ-32	1
71V124SA12YGI	SOJ-32	1
71V124SA12YGI8	SOJ-32	1
71V124SA12YG	SOJ-32	1
71V124SA12YG8	SOJ-32	1
71V124SA12YGI	SOJ-32	1
71V124SA12YGI8	SOJ-32	1
71V124SA15TYG	SOJ-32	1
71V124SA15TYG8	SOJ-32	1
71V124SA15TYGI	SOJ-32	1
71V124SA15TYGI8	SOJ-32	1
71V124SA15YG	SOJ-32	1
71V124SA15YG8	SOJ-32	1
71V124SA15YGI	SOJ-32	1
71V124SA15YGI8	SOJ-32	1
71V256S10YG	SOJ-28	1
71V256S10YG8	SOJ-28	1
71V256S12YG	SOJ-28	1
71V256S12YG8	SOJ-28	1
71V256SA10YG	SOJ-28	1
71V256SA10YG8	SOJ-28	1



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<u>Part #</u>	<u>Package Type</u>	<u>Group</u>
71V256SA12YG	SOJ-28	1
71V256SA12YG8	SOJ-28	1
71V256SA12YGI	SOJ-28	1
71V256SA12YGI8	SOJ-28	1
71V256SA15Y8/N	SOJ-28	1
71V256SA15YG	SOJ-28	1
71V256SA15YG8	SOJ-28	1
71V256SA15YGI	SOJ-28	1
71V256SA15YGI8	SOJ-28	1
71V416L10YG	SOJ-44	1
71V416L10YG8	SOJ-44	1
71V416L12YG	SOJ-44	1
71V416L12YG8	SOJ-44	1
71V416L12YGI	SOJ-44	1
71V416L12YGI8	SOJ-44	1
71V416L15YGI	SOJ-44	1
71V416L15YGI8	SOJ-44	1
71V416S10YG	SOJ-44	1
71V416S10YG8	SOJ-44	1
71V416S12YG	SOJ-44	1
71V416S12YG8	SOJ-44	1
71V416S12YGI	SOJ-44	1
71V416S12YGI8	SOJ-44	1
71V416S15YG	SOJ-44	1
71V416S15YG8	SOJ-44	1
71V416S15YGI	SOJ-44	1
71V416S15YGI8	SOJ-44	1
71V416YS12YG	SOJ-44	1
71V416YS12YG8	SOJ-44	1
71V416YS12YGI	SOJ-44	1
71V416YS12YGI8	SOJ-44	1
71V416YS15YG	SOJ-44	1
71V416YS15YG8	SOJ-44	1
71V424L10YG	SOJ-36	1
71V424L10YG8	SOJ-36	1
71V424L10YGI	SOJ-36	1
71V424L10YGI8	SOJ-36	1
71V424L12YG	SOJ-36	1
71V424L12YG8	SOJ-36	1
71V424L12YGI	SOJ-36	1
71V424L12YGI8	SOJ-36	1
71V424L15YG	SOJ-36	1
71V424L15YG8	SOJ-36	1
71V424L15YGI	SOJ-36	1
71V424L15YGI8	SOJ-36	1



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Affected IDT Part # List

<u>Part #</u>	<u>Package Type</u>	<u>Group</u>
71V424S10YG	SOJ-36	1
71V424S10YG8	SOJ-36	1
71V424S10YGI	SOJ-36	1
71V424S10YGI8	SOJ-36	1
71V424S12YG	SOJ-36	1
71V424S12YG8	SOJ-36	1
71V424S12YGI	SOJ-36	1
71V424S12YGI8	SOJ-36	1
71V424S15YG	SOJ-36	1
71V424S15YG8	SOJ-36	1
71V424S15YGI	SOJ-36	1
71V424S15YGI8	SOJ-36	1
71V424YS12YGI	SOJ-36	1
71V424YS12YGI8	SOJ-36	1
71V424YS15YGI	SOJ-36	1
71V424YS15YGI8	SOJ-36	1
QS32X2245Q2G	QVSOP-40	2
QS32X2245Q2G8	QVSOP-40	2
QS32X2384Q1G	QSOP-48	2
QS32X2384Q1G8	QSOP-48	2
QS32X245Q2G	QVSOP-40	2
QS32X245Q2G8	QVSOP-40	2
QS32X384Q1G	QSOP-48	2
QS32X384Q1G8	QSOP-48	2
QS32X861Q1G	QSOP-48	2
QS32X861Q1G8	QSOP-48	2
QS32XL384Q1G	QSOP-48	2
QS32XL384Q1G8	QSOP-48	2
QS32XVH2245Q2G	QVSOP-40	2
QS32XVH2245Q2G8	QVSOP-40	2
QS32XVH245Q2G	QVSOP-40	2
QS32XVH245Q2G8	QVSOP-40	2
QS33X257Q1G	QSOP-48	2
QS33X257Q1G8	QSOP-48	2
QS34X2245Q3G	QVSOP-80	2
QS34X2245Q3G8	QVSOP-80	2
QS34X245Q3G	QVSOP-80	2
QS34X245Q3G8	QVSOP-80	2
QS34X383Q3G	QVSOP-80	2
QS34X383Q3G8	QVSOP-80	2
QS34XVH2245Q3G	QVSOP-80	2
QS34XVH2245Q3G8	QVSOP-80	2
QS34XVH245Q3G	QVSOP-80	2
QS34XVH245Q3G8	QVSOP-80	2
QS4A215Q1G	QSOP-48	2
QS4A215Q1G8	QSOP-48	2