



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: I1110-01 DATE: November 2, 2011 Product Affected: 89H32NT (Refer to Attachment I) Date Effective: December 2, 2011	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input checked="" type="checkbox"/> Other Shipments after PCN effective date
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Contact: PS Tow Title: Director, Product Assurance Phone #: (408) 284-8206 Fax #: (408) 284-1450 E-mail: pstow@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Availability shown on request
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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 checked="" type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input checked="" type="checkbox"/> Data Sheet <input type="checkbox"/> Other	<p>The Data Sheet parameter for Core Supply Max1.1V current will be increased from the original 2985mA to 3400mA for 23mm products and from 2816mA to 3300mA for 19mm products to more accurately account for fab process conditions.</p> <p>The test program will be revised to match this new limit.</p>
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RELIABILITY/QUALIFICATION SUMMARY:

Characterization tests will verify that there is no change to the performance or reliability of the product.

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.

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 I - PCN # : I1110-01

PCN Type: Data Sheet Change and Test Program

Details Of Change:

The Data Sheet parameter for Core Supply Max1.1V will be modified to more accurately account for fab process conditions. Please see the following table for details of the data sheet change.

There is no change to device design, process or technology.

From	To
23mm products	23mm products
Power Consumption (Table 18)	Power Consumption (Table 18)
Core Supply Max1.1V current - 2985mA	Core Supply Max1.1V current - 3400mA
Core Supply Max1.1V power - 3.28W	Core Supply Max1.1V power - 3.74W
Total Max Power - 6.79W	Total Max Power - 7.25W
19mm products	19mm products
Power Consumption (Table 18)	Power Consumption (Table 18)
Core Supply Max1.1V current - 2816mA	Core Supply Max1.1V current - 3300mA
Core Supply Max1.1V power - 3.10W	Core Supply Max1.1V power - 3.63W
Total Max Power - 6.18W	Total Max Power - 6.71W



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ATTACHMENT II - PCN # : I1110-01

Affected Part Number

Part Number	Part Number	Part Number	Part Number
89H12NT12G2ZAHL	89H16NT16G2ZBHLGI	89H16NT8BG2ZAHL	89H22NT16G2ZBHLGI
89H12NT12G2ZAHL8	89H16NT16G2ZBHLGI8	89H16NT8BG2ZAHL8	89H22NT16G2ZBHLGI8
89H12NT12G2ZAHLG	89H16NT16G2ZBHLI	89H16NT8BG2ZAHLG	89H22NT16G2ZBHLI
89H12NT12G2ZAHLG8	89H16NT16G2ZBHLI8	89H16NT8BG2ZAHLG8	89H22NT16G2ZBHLI8
89H12NT12G2ZAHLGI	89H16NT16G2ZCHL	89H16NT8BG2ZAHLGI	89H22NT16G2ZCHL
89H12NT12G2ZAHLGI8	89H16NT16G2ZCHL8	89H16NT8BG2ZAHLGI8	89H22NT16G2ZCHL8
89H12NT12G2ZAHLI	89H16NT16G2ZCHLG	89H16NT8BG2ZAHLI	89H22NT16G2ZCHLG
89H12NT12G2ZAHLI8	89H16NT16G2ZCHLG8	89H16NT8BG2ZAHLI8	89H22NT16G2ZCHLG8
89H12NT12G2ZBHL	89H16NT16G2ZCHLGI	89H16NT8BG2ZBHL	89H22NT16G2ZCHLGI
89H12NT12G2ZBHL8	89H16NT16G2ZCHLGI8	89H16NT8BG2ZBHL8	89H22NT16G2ZCHLGI8
89H12NT12G2ZBHLG	89H16NT16G2ZCHLI	89H16NT8BG2ZBHLG	89H22NT16G2ZCHLI
89H12NT12G2ZBHLG8	89H16NT16G2ZCHLI8	89H16NT8BG2ZBHLG8	89H22NT16G2ZCHLI8
89H12NT12G2ZBHLGI	89H16NT2G2ZAHL	89H16NT8BG2ZBHLGI	89H24NT24AG2ZAHL
89H12NT12G2ZBHLGI8	89H16NT2G2ZAHL8	89H16NT8BG2ZBHLGI8	89H24NT24AG2ZAHL8
89H12NT12G2ZBHLI	89H16NT2G2ZAHLG	89H16NT8BG2ZBHLI	89H24NT24AG2ZAHLG
89H12NT12G2ZBHLI8	89H16NT2G2ZAHLG8	89H16NT8BG2ZBHLI8	89H24NT24AG2ZAHLG8
89H12NT12G2ZCHL	89H16NT2G2ZAHLGI	89H16NT8BG2ZCHL	89H24NT24AG2ZAHLGI
89H12NT12G2ZCHL8	89H16NT2G2ZAHLGI8	89H16NT8BG2ZCHL8	89H24NT24AG2ZAHLI
89H12NT12G2ZCHLG	89H16NT2G2ZAHLI	89H16NT8BG2ZCHLG	89H24NT24AG2ZAHLI8
89H12NT12G2ZCHLG8	89H16NT2G2ZAHLI8	89H16NT8BG2ZCHLG8	89H24NT24AG2ZBHL
89H12NT12G2ZCHLGI	89H16NT2G2ZBHL	89H16NT8BG2ZCHLGI	89H24NT24AG2ZBHL8
89H12NT12G2ZCHLGI8	89H16NT2G2ZBHL8	89H16NT8BG2ZCHLGI8	89H24NT24AG2ZBHLG
89H12NT12G2ZCHLI	89H16NT2G2ZBHLG	89H16NT8BG2ZCHLI	89H24NT24AG2ZBHLG8
89H12NT12G2ZCHLI8	89H16NT2G2ZBHLG8	89H16NT8BG2ZCHLI8	89H24NT24AG2ZBHLGI
89H16NT16G2ZAHL	89H16NT2G2ZBHLGI	89H22NT16G2ZAHL	89H24NT24AG2ZBHLI
89H16NT16G2ZAHL8	89H16NT2G2ZBHLGI8	89H22NT16G2ZAHL8	89H24NT24AG2ZBHLI8
89H16NT16G2ZAHLG	89H16NT2G2ZBHLI	89H22NT16G2ZAHLG	89H24NT24AG2ZCHL
89H16NT16G2ZAHLG8	89H16NT2G2ZBHLI8	89H22NT16G2ZAHLG8	89H24NT24AG2ZCHL8
89H16NT16G2ZAHLGI	89H16NT2G2ZCHL	89H22NT16G2ZAHLGI	89H24NT24AG2ZCHLG
89H16NT16G2ZAHLGI8	89H16NT2G2ZCHL8	89H22NT16G2ZAHLGI8	89H24NT24AG2ZCHLG8
89H16NT16G2ZAHLI	89H16NT2G2ZCHLG	89H22NT16G2ZAHLI	89H24NT24AG2ZCHLGI
89H16NT16G2ZAHLI8	89H16NT2G2ZCHLG8	89H22NT16G2ZAHLI8	89H24NT24AG2ZCHLI
89H16NT16G2ZBHL	89H16NT2G2ZCHLGI	89H22NT16G2ZBHL	89H24NT24AG2ZCHLI8
89H16NT16G2ZBHL8	89H16NT2G2ZCHLGI8	89H22NT16G2ZBHL8	89H24NT24G2ZAHL
89H16NT16G2ZBHLG	89H16NT2G2ZCHLI	89H22NT16G2ZBHLG	89H24NT24G2ZAHL8
89H16NT16G2ZBHLG8	89H16NT2G2ZCHLI8	89H22NT16G2ZBHLG8	89H24NT24G2ZAHLG



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89H24NT24G2ZAHLG8	89H24NT6AG2ZBHLI8	89H32NT24AG2ZAHLI8	89H32NT8AG2ZAHL
89H24NT24G2ZAHLGI	89H24NT6AG2ZCHL	89H32NT24AG2ZBHL	89H32NT8AG2ZAHL8
89H24NT24G2ZAHLGI8	89H24NT6AG2ZCHL8	89H32NT24AG2ZBHL8	89H32NT8AG2ZAHLG
89H24NT24G2ZAHLI	89H24NT6AG2ZCHLG	89H32NT24AG2ZBHLG	89H32NT8AG2ZAHLG8
89H24NT24G2ZAHLI8	89H24NT6AG2ZCHLG8	89H32NT24AG2ZBHLG8	89H32NT8AG2ZAHLGI
89H24NT24G2ZBHL	89H24NT6AG2ZCHLGI	89H32NT24AG2ZBHLGI	89H32NT8AG2ZAHLGI8
89H24NT24G2ZBHL8	89H24NT6AG2ZCHLGI8	89H32NT24AG2ZBHLI	89H32NT8AG2ZAHLI
89H24NT24G2ZBHLG	89H24NT6AG2ZCHLI	89H32NT24AG2ZBHLI8	89H32NT8AG2ZAHLI8
89H24NT24G2ZBHLG8	89H24NT6AG2ZCHLI8	89H32NT24AG2ZCHL	89H32NT8AG2ZBHL
89H24NT24G2ZBHLGI	89H32NT16BG2ZAHL	89H32NT24AG2ZCHL8	89H32NT8AG2ZBHL8
89H24NT24G2ZBHLGI8	89H32NT16BG2ZAHL8	89H32NT24AG2ZCHLG	89H32NT8AG2ZBHLG
89H24NT24G2ZBHLI	89H32NT16BG2ZAHLG	89H32NT24AG2ZCHLG8	89H32NT8AG2ZBHLG8
89H24NT24G2ZBHLI8	89H32NT16BG2ZAHLG8	89H32NT24AG2ZCHLGI	89H32NT8AG2ZBHLGI
89H24NT24G2ZCHL	89H32NT16BG2ZAHLGI	89H32NT24AG2ZCHLI	89H32NT8AG2ZBHLGI8
89H24NT24G2ZCHL8	89H32NT16BG2ZAHLI	89H32NT24AG2ZCHLI8	89H32NT8AG2ZBHLI
89H24NT24G2ZCHLG	89H32NT16BG2ZAHLI8	89H32NT24BG2ZAHL	89H32NT8AG2ZBHLI8
89H24NT24G2ZCHLG8	89H32NT16BG2ZBHL	89H32NT24BG2ZAHL8	89H32NT8AG2ZCHL
89H24NT24G2ZCHLGI	89H32NT16BG2ZBHL8	89H32NT24BG2ZAHLG	89H32NT8AG2ZCHL8
89H24NT24G2ZCHLGI8	89H32NT16BG2ZBHLG	89H32NT24BG2ZAHLG8	89H32NT8AG2ZCHLG
89H24NT24G2ZCHLI	89H32NT16BG2ZBHLG8	89H32NT24BG2ZAHLGI	89H32NT8AG2ZCHLG8
89H24NT24G2ZCHLI8	89H32NT16BG2ZBHLGI	89H32NT24BG2ZAHLI	89H32NT8AG2ZCHLGI
89H24NT6AG2ZAHL	89H32NT16BG2ZBHLI	89H32NT24BG2ZAHLI8	89H32NT8AG2ZCHLGI8
89H24NT6AG2ZAHL8	89H32NT16BG2ZBHLI8	89H32NT24BG2ZBHL	89H32NT8AG2ZCHLI
89H24NT6AG2ZAHLG	89H32NT16BG2ZCHL	89H32NT24BG2ZBHL8	89H32NT8AG2ZCHLI8
89H24NT6AG2ZAHLG8	89H32NT16BG2ZCHL8	89H32NT24BG2ZBHLG	89H32NT8BG2ZAHL
89H24NT6AG2ZAHLGI	89H32NT16BG2ZCHLG	89H32NT24BG2ZBHLG8	89H32NT8BG2ZAHL8
89H24NT6AG2ZAHLGI8	89H32NT16BG2ZCHLG8	89H32NT24BG2ZBHLGI	89H32NT8BG2ZAHLG
89H24NT6AG2ZAHLI	89H32NT16BG2ZCHLGI	89H32NT24BG2ZBHLI	89H32NT8BG2ZAHLG8
89H24NT6AG2ZAHLI8	89H32NT16BG2ZCHLI	89H32NT24BG2ZBHLI8	89H32NT8BG2ZAHLGI
89H24NT6AG2ZBHL	89H32NT16BG2ZCHLI8	89H32NT24BG2ZCHL	89H32NT8BG2ZAHLGI8
89H24NT6AG2ZBHL8	89H32NT24AG2ZAHL	89H32NT24BG2ZCHL8	89H32NT8BG2ZAHLI
89H24NT6AG2ZBHLG	89H32NT24AG2ZAHL8	89H32NT24BG2ZCHLG	89H32NT8BG2ZAHLI8
89H24NT6AG2ZBHLG8	89H32NT24AG2ZAHLG	89H32NT24BG2ZCHLG8	89H32NT8BG2ZBHL
89H24NT6AG2ZBHLGI	89H32NT24AG2ZAHLG8	89H32NT24BG2ZCHLGI	89H32NT8BG2ZBHL8
89H24NT6AG2ZBHLGI8	89H32NT24AG2ZAHLGI	89H32NT24BG2ZCHLI	89H32NT8BG2ZBHLG
89H24NT6AG2ZBHLI	89H32NT24AG2ZAHLI	89H32NT24BG2ZCHLI8	89H32NT8BG2ZBHLG8



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89H32NT8BG2ZBHLGI	89H32NT8BG2ZBHLI8	89H32NT8BG2ZCHLG	89H32NT8BG2ZCHLGI8
89H32NT8BG2ZBHLGI8	89H32NT8BG2ZCHL	89H32NT8BG2ZCHLG8	89H32NT8BG2ZCHLI
89H32NT8BG2ZBHLI	89H32NT8BG2ZCHL8	89H32NT8BG2ZCHLGI	89H32NT8BG2ZCHLI8