

PRODUCT/PROCESS CHANGE NOTICE (PCN)

				(- 0-1)		
PCN #: I0401-06 Product Affected: IDT79RC32K438		DATE: January 15, 2004	MEANS OF DISTIN ☐ Product Mark ☐ Back Mark ☐ Date Code ☐ Other	GUISHING CHANG		
Date Effective: A			D Other			
	mla Paul					
	oduct Assurance Mana	ger	Attachment::	Yes	∐ No	
	8-654-6419					
	8-492-8362		Samples:	Available upon requ	iest	
E-mail: <u>bir</u>	mla.paul@idt.com					
DESCRIPTION AND PURPOSE OF CHANGE: □ Die Technology □ Wafer Fabrication Process □ Assembly Process □ Equipment □ Material □ Material □ Testing □ Manufacturing Site □ Data Sheet □ Other □ Die Revision change from "ZA"(CMOS 0.13μm) to "ZC"(CMOS 0.13μm) to enhance the desperior of the desperior					enhance the device	
Qualification data is attached. 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:			Approval for s	shipments prior to	effective date.	
Name/Date:		E-	Mail Address:			
Title:		Ph	none# /Fax# :			
CUSTOMER COMMENTS:						
IDT ACKNOW	LEDGMENT OF RE	CEIPT:				
RECD. BY:			DATE:		_	



Integrated Device Technology, Inc. 2975 Stender Way, Santa Clara, CA - 95054

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PCN Type: Die Revision

Data Sheet Change N/A

Detail of Change The new die revision will address the known errata items as follows:

(URL www.idt.com/docs/RC32438_ER_32698.pdf)

1. Item # 17," DDR data strobe circuit calibration".

2. Item # 3, "Interrupt generated from Compare Register".

3. Item # 19, "VccPll Pin Failure at 500V CDM".

4. Item # 10, "Ethernet Rx packets not DMAing correctly".

5. Item # 29, "Ethernet Receive FIFO Overrun May Halt Ethernet Receive Interface".

6. Item # 11, "Ethernet Tx sends extra package".

7. Item # 4, "Ethernet TX FIFO Underflow Resulting in Lockup".

There is no change in die technology/process.

Conversion schedule (Estimated)

Base Device Sample Availability Production Shipments

IDT79RC32K438 Available April 15, 2004

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ATTACHMENT - PCN #: 10401-06

Qualification Plan: QI-03-05

Test Vehicle: 79RC32K438

	Required sample/# fails	Test Data
Operating Life Test (Dynamic) JESD22-A108	77/0	77/0
$(1000 \text{ Hrs } @125^{\circ}\text{C}, \text{Vcc} = 1.4\text{V})$		
Temperature cycling (JESD22-A104)	45/0	45/0
(-55°C to +125°C, 1000cyc)		
Autoclave (EIA/JESD22-A102, 168 hr@ 2 ATM	45/0	45/0
Saturated Steam @ 121°C		
Ball Shear Test (EIA/JESD22-B116, 24 hours bake	5/0	5/0
@ 200°C		
ESD: Human Body Model	3/0	3/0
Mil-Std 883, Method 3015		
ESD: Charge Device Model	3/0	3/0
JESD22-C101		
Latch-up, JESD 78	10/0	10/0

Note: For Autoclave and Temperature cycle, samples have been subjected to pre-conditioning per JESD22-A113 Level 3 flow.