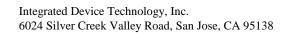


PRODUCT/PROCESS CHANGE NOTICE (PCN)								
PCN #: N1608 Product Affected Date Effective:			 Pr Ba Da 	IS OF DISTIN oduct Mark ack Mark ate Code her	GUISHING CH Change in orc			
Contact:	TSD Clock Team		Attach	ment:	Yes		No	
E-mail:	clocks@idt.com		Sample	es: Samples	are available no	w.		
 Die Technolog Wafer Fabrica Assembly Pro Equipment Material Testing Manufacturing Data Sheet 	 ☐ Material ☐ Testing ☐ Manufacturing Site ☐ Manufacturing Site ☐ Manufacturing Site ☐ Great tails on outputs one by one (one after the output). The increased output chaole time is still within the original specification of the current 8T74S208A-01 silicon. The parameters power supply current, output power supply, propagation delay (input to any output) and output rise time are updated as a consequence of the redesign. All changed parameters are 							
RELIABILITY/QUALIFICATION SUMMARY: There is no change in die technology/process.								
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:				pproval for	shipments pr	ior to e	ffective date.	
Name/Date:		E	Mail A	ddress:				
Title:		P	none #/	Fax #:				
CUSTOMER COMMENTS:								
IDT ACKNOWLEDGMENT OF RECEIPT:								
RECD. BY:			DATE					



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN #: N1608-01

PCN Type:Die Revision Change / DatasheetData Sheet Change:YesDetail of Change:The device 8T74S208C-01 is a redesign of the 8T74S208A-01 that eliminates an output signal integrity
issue during output enable. The redesign changed the internal timing of the output enable logic: instead of
turning on outputs at the same time, the new output enable circuit turns on outputs one by one (one after
the other). The increased output enable time is still within the original specification of the current
8T74S208A-01 silicon. The parameters power supply current, output power supply, propagation delay
(input to any output) and output rise time are updated as a consequence of the redesign. All changed
parameters are listed in the tables below.
The redesign only involved changes of metal layers (connection layers). Silicon and package technology
was not modified.

IDT requests a transition from the 8T74S208A-01 to the 8T74S208C-01, alternatively, we are offering a last time buy of the 8T74S208A-01 by November 18, 2016.

FROM: 8T74S208A-01

DIDT

Symbol	Parameter		Test Conditions	Minimum	Typical	Maximum	Units
I _{DD}	Power Supply Cu	rrent			41	49	mA
I _{DDO}	Output Supply Cu	urrent	All Outputs are Enabled and Terminated		153	176	mA
Symbol	Parameter		Test Conditions	Minimum	Typical	Maximum	Units
tPD		IN, nIN to Qx, nQx	FSEL[1:0] = 00	420		620	ps
	Propagation		FSEL[1:0] - 01	580		800	ps
	Delay		FSEL[1:0] = 10	680		920	ps
			FSEL[1:0] = 11	780		1050	ps
+ /4	Output Disc/ Fall	Times	20% to 80%		155	230	ps
t _R /t _F	Output Rise/ Fall	rime	10% to 90%		245	350	ps

TO: 8T74S208C-01

Symbol	Parameter		Test Conditions	Minimum	Typical	Maximum	Units
I _{DD}	Power Supply Cu	rrent			54	64	mA
I _{DDO}	Output Supply Cu	urrent	All Outputs are Enabled and Terminated		155	182	mA
Symbol	Parameter		Test Conditions	Minimum	Typical	Maximum	Units
tPD		IN, nIN to Qx, nQx	FSEL[1:0] = 00	420		700	ps
	Propagation		FSEL[1:0] = 01	580		880	ps
	Delay		FSEL[1:0] = 10	680		1080	ps
			FSEL[1:0] = 11	780		1180	ps
+ /+	Output Dico/ Fall	Time	20% to 80%		155	230	ps
t _R /t _F	Output Rise/ Fall	пше	10% to 90%		245	370	ps

Table 1: Changes in Orderable Part#

Old Ordering Part Number	New Ordering Part Number		
8T74S208A-01NLGI	8T74S208C-01NLGI		
8T74S208A-01NLGI8	8T74S208C-01NLGI8		



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN #: N1608-01

Qualification Test Plan and Result:

Qual Vehicle: 8T74S208C-01NLGI

Test Description	Test Method (Latest specs in effect)	Test Results (SS / Rej)		
ESD: Human Body Model @ 2000V	JS-001-2012	3/0		
ESD: Charged Device Model @ 500V	JESD22-C101	3/0		
Latch-up	JESD78	6/0		