



# Product Change Notification

## 106370 - 00

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Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geographic location listed below. No response from customers will be deemed as acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this attached PCN.

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# Product Change Notification

**Change Notification #:** 106370 - 00  
**Change Title:** Intel® Optical Transceiver, TXN174310850,,  
PCN 106370-00, Product Material, Pb-Free  
Conversion of Components, Top Assembly  
Number Change  
**Date of Publication:** May 26, 2006

## Key Characteristics of the Change:

Product Material

## Forecasted Key Milestones:

<b>Date of Samples Availability:</b>	Jun 30, 2006
<b>Date Customer Must be Ready to Receive Post-Conversion Material:</b>	Jul 30, 2006
<b>Date of First Availability of Post-Conversion Material:</b>	Jun 30, 2006

*The date of "First Availability of Post-Conversion Material" is the projected date that a customer may expect to receive the Post-Conversion Materials. This date is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand, therefore, although customers should be prepared to receive the Post-Converted Materials on this date, Intel will continue to ship and customers may continue to receive the pre-converted materials until the inventory has been depleted.*

## Description of Change to the Customer:

The Intel® TXN174310850 Optical Transceiver is RoHS Level 1 compliant with the Telecom exemption and uses components with Pb. Vendors are discontinuing some of these components and replacing them with Pb-Free components of the same design. This does not change the transceiver RoHS status.

Please refer to the Table below for the various affected components that will be replaced by the Pb-Free counterpart of the same design. Affected components are listed in the table. Vendors will be providing qualification data on the Pb-Free components. Please contact your local Intel sales representative to request the qualification data.

The timeline for Pb-Free conversion for each vendor and component is expected to be different and is targeted to close by the end of 2006. Intel will phase in each component conversion at different times based on the vendor transition timelines and the level of inventory for components with Pb.

All customers are requested to accept the Pb-Free version components as the TXN174310850 with Pb components will cease to be manufactured. First samples of the TXN174310850 with Pb-Free components will be available for general sampling in June 2006.

<b>Qty</b>	<b>Item Type</b>	<b>Item Description</b>
1	IC-VOLTAGE-REGULATOR	Regulator used to provide 1.2V VREF for low speed 70 pin signals TX ON/OFF and Reset. Provides VCC for 3 logic gates
6	FET-N-CHANNEL-TRANSISTOR	FET used to turn on the different supply rails
2	FET-P-CHANNEL-TRANSISTOR	FET used as part of the TX & RX monitor circuit
1	MEMORY	EEPROM used for NVR Register Map
2	IC-VOLTAGE-REGULATOR	Hot Swap controller. Used to control inrush current on supply rails.
3	IC-VOLTAGE-REGULATOR	Linear Regulator used on TX supply chain. RX Chain on Ci2M only.
2	BIPOLAR-NPN-TRANSISTOR	Transistor used as a switch for SERDES Reset and Bias Tee.
1	DIODES	Diode protection for the JTAG interface to the Microcontroller.
3	OPERATIONAL-AMPLIFIER	OP Amps used as part of the monitoring circuit both TX and RX
1	VLSI-MICROCONTROLLER	Microcontroller provides ADC/DAC and some logic
1	SMALL-SIGNAL-INDUCTOR	Inductor part of the Bias Tee.

## Customer Impact of Change and Recommended Action:

There will be no quality, reliability or functional implications to our customers. Intel is not recommending additional qualification for these changes.

The Top Assembly number (TA#) will change. Please use the chart below for the updated TA# that will be used for Pb-Free version components.

## Products Affected / Intel Ordering Codes:

### System Products Table

Affected Product Code	Affected MM#	Pre-Change TA#	Post-Change TA#
TXN174310850F16872628	872628	D27613-002	D27613-003
TXN174310850F1B872633	872633	D38011-001	D38011-002
TXN174310850F1C872629	872629	D30832-002	D30832-003
TXN174310850F1D872630	872630	TA not created	
TXN174310850F1E872631	872631	D34918-001	D34918-002
TXN174310850F1F874546	874546	D27576-002	D27576-003
TXN174310850F1G884629	884629	TA not created	

## Reference Documents / Attachments:

Document:

Location #:

## PCN Revision History:

Date of Revision:

Revision Number:

Reason:

May 26, 2006

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Originally Published PCN