



Product Change Notification

107936 - 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 #: 107936 - 00
Change Title: Intel® Optical Transceiver,
TXN174310850xxx XENPAK SR, PCN
107936-00, Product Material, Manufacturing
Site Assembly and Order Code Changes
Date of Publication: September 24, 2007

Key Characteristics of the Change:

Product Material
Manufacturing Site
Order Code

Forecasted Key Milestones:

Date of Samples Availability:	Sep 24, 2007
Date of Qualification Data Availability:	Oct 19, 2007
Date Customer Must be Ready to Receive Post-Conversion Material:	Dec 24, 2007
Date of First Availability of Post-Conversion Material:	Dec 24, 2007

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® TXN174310850xxx Optical Transceiver will have the material and site changes detailed below.

During extended qualification testing with the module configured to provide fast periodic DOM update, an issue was found with the Intel TXN174310850xxx related to a bug in how the real-time operating system (RTOS) of the microcontroller handles memory paging. Consequent failure modes include the microcontroller shutting down the optical transmitter and/or resetting the SerDes.

1. The firmware of the TXN174310850xxx has been fixed to completely avoid this bug in the RTOS under all operating conditions.

The Intel® TXN174310850xxx uses Advanced Optical Components (AOC) Transmitter Optical Sub-Assembly (TOSA), and AOC Receiver Optical Sub-Assembly (ROSA). The following changes are being made to the AOC TOSA and ROSA:

AOC TOSA CHANGES

2. Site Change: AOC will move TOSA connectorizing and testing from Allen, Texas to Fabrinet, Thailand to improve supply.
3. Site change: Epitaxial fabrication operations will be moved from Richardson, Texas to Allen, Texas to improve supply.
4. Material Change: AOC will implement an improvement to the passivation layer

AOC ROSA CHANGES

5. Material Change: AOC will change the transimpedance amplifier (TIA) from Gennum 1052 to Gennum 1052-A2A. The Gennum 1052-A2A incorporates an inductor value change in the receiver circuit that improves the consistency of eye crossing point.

The Intel® TXN174310850xxx will make the following change to the BOM to improve supply:

6. Material Change: Multek will become the primary PCB vendor replacing the current vendors TTM and Merix.

The Intel® TXN174310850xxx will make the following changes to the BOM to improve performance:

7. Material Change: C293 capacitor off 1.8V supply rail will be changed from 0.1uF to 0.01uF to improve inrush current.

8. Material Change: A new optical end cap will be used. Minor derivative changes to the transponder and box labels are also required.

Lastly, the Intel® TXN174310850xxx will transition to a different assembly site:

9. Site Change: The Intel® TXN174310850xxx Optical Transceiver assembly site will transition from Penang, Malaysia to Bangkok, Thailand.

Customer Impact of Change and Recommended Action:

There is an impact to the form fit or function of the optical transceiver with these changes discussed above. These modifications made to the TXN174310850xxx do not require any line card modifications. Customer delta qualification of the changed product may be required.

Intel has performed full quality and reliability testing and complete design verification testing for TXN174310850xxx to ensure that there is no quality, reliability or functional implications to our customers. Please contact your local Intel sales representative to request the qualification reports.

First samples of the TXN174310850xxx with the listed changes are available upon request.

There is a change to Product Code and Material master ID (MM#) based on this transition. Please use the chart below for the updated Product Code and MM# that will be used to order future shipments.

Products Affected / Intel Ordering Codes:

Affected Product Code	Pre-Change MM#	Post-Affected Product Code	Post-Change MM#
TXN174310850F16	872628	TXN174310850F36	891472
TXN174310850F1B	872633	TXN174310850F3B	891474
TXN174310850F1G	884629	TXN174310850F3G	891475

Reference Documents / Attachments:

Document:

Qual Data

Location #:

Please Contact your Local Intel Field Sales Representative

PCN Revision History:

Date of Revision:

September 24, 2007

Revision Number:

00

Reason:

Originally Published PCN