Serial ATA Revision 3.2 ECN #083
Title : Tx impedance balance cleanup

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## Document History

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<tr>
<td>0</td>
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1 Introduction

1.1 Problem Statement
The common mode impedance is listed as 100 ohm while the differential impedance is listed as 25 ohm in the Tx impedance balance section 7.4.3.2.6.

1.2 Solution Summary
Change the common mode impedance to 25 ohm. Change the differential impedance to 100 ohm.

1.3 Background (optional)
A request for clarification was posted to the SATA-IO Logo reflector highlighting the issue. The issue was identified as an error. The requestor was offered a chance to submit an ECN but no response has been provided. This issue has existed since Serial ATA Revision 2.5.
2 Technical Specification Changes

2.1 <Title of section being changed>
[editor note: Existing text is black. New text is marked as underlined in blue color. Material to be deleted is red with strikethrough markings.]

2.1.1.1 < 7.4.3.2.6> Tx impedance balance (Gen2i, Gen2m, Gen3i)
Impedance balance is defined as the ratio (expressed in dB) of common mode incident power at a 25Ω ohm impedance level to differential mode reflected power at a 25Ω ohm impedance level. The impedance balance is a bound on the coupling between common and differential modes.