

**Proposed
Draft**

**Serial ATA
International Organization**

**Version 0
24-Nov-2008**

**Serial ATA Revision 2.6 + Gen3i ECN # 032
Title : Correction to TX AC Common Mode Voltage
Table Value 'Units'**

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1 Introduction

1.1 Problem Statement

The ‘Units’ callout for the Tx AC Common Mode Voltage in Table 7-3 was intended to be a frequency domain measurement, which is typically assumed to be RMS (root-mean-square), not Pk (peak), as presently shown. For the measurement value to be correct, this value must be in units of RMS.

1.2 Solution Summary

See changes below.

1.3 Background (optional)

2 Technical Specification Changes

2.1 6G PHY, Draft Specification, revision 0.95, Table 7-3.

[Editor’s Note: The changes marked in **BLUE** will be incorporated]

Present Table 7-3 Entry:

Parameter	Units	Limit	Electrical Specification							Detail Cross-Ref Section	Measurement Cross-Ref Section
			Gen1i	Gen1m	Gen1x	Gen2i	Gen2m	Gen2x	Gen3i		
$V_{cm,acTX}$, TX AC Common Mode Voltage	dBmV(pk)	3 GHz Max	-	-	-	-	-	26	7.2.2.2.12	7.4.21	

Correction Proposed:

Parameter	Units	Limit	Electrical Specification							Detail Cross-Ref Section	Measurement Cross-Ref Section
			Gen1i	Gen1m	Gen1x	Gen2i	Gen2m	Gen2x	Gen3i		
$V_{cm,acTX}$, TX AC Common Mode Voltage	dBmV (rms)	3 GHz Max	-	-	-	-	-	26	7.2.2.2.12	7.4.21	