

ACT Jitter Requirements for Camera PHY

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Introduction

- › Crystal-less operation at the camera is an important feature for 802.3dm PHYs
- › This presentation proposes specific text for jitter requirements for the camera PHY operating in slave (follower) mode, that are consistent with crystal-less operation.
- › These jitter requirements were previously introduced in [jonsson_penumuchu_3dm_01_10_30_25.pdf](#)
- › The following text is intended for clause 201.9.2.3, titled “201.9.2.3 Transmitter timing jitter”

Text Proposal

- › When in test mode 1 and the link is up and the two PHYs have established link (link_status is set to OK), the RMS value of the PHY_S SLAVE TX_TCLK_175 jitter relative to anunjittered reference shall be less than 6 ps.
- › The RMS jitter shall be less than 3 ps when measured over jitter frequencies greater than 100kHz.
- › The peak-to-peak value of the SLAVE TX_TCLK_175 jitter relative to anunjittered reference shall be less than 60 ps



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