

TIDA- 00138

Uncompressed Digital Video SerDes over twisted pair for automotive VGA camera systems

This document shares the test results of the DS90UB901-Q1 and DS90UB902-Q1 DEMO. Results provided are the Eye Diagram.

Eye Diagram

The test data shown illustrates the quality of the differential signal received by the FPD-Link III deserializer. The FPD-Link III signal is transmitted by the serializer over the shielded twisted pair cable, and the signal quality enhanced by the built-in equalizer within the deserializer. The eye diagram is measured at the CMLOUT test-point offering a view of the internally equalized differential signal. The CMLOUT test point should always be used to measure the quality of the differential signal to include the effect of the adaptive equalizer. The CMLOUT is enabled via I2C register control.

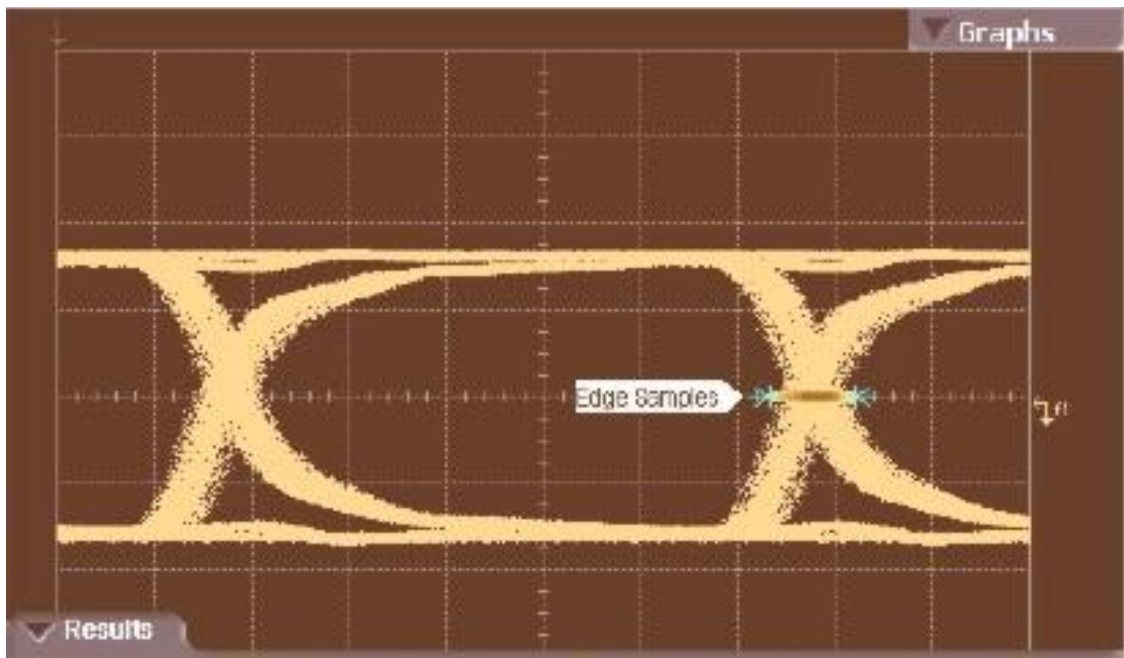


Figure 1. Eye diagram with PCLK = 50MHz, EQ=3, 10m cable

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