

10 GbE FEASIBILITY OVER 50 & 62.5 MULTIMODE FIBERS WITH HIGH SPEED 850nm VCSEL.

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OBJECTIVES

Evaluate the performance of Gore high speed 850nm VCSELs with Alcatel new generation fibers.

Demonstrate the feasibility to transmit at 10Gb/s across a minimum of 300m using either 62.5 or 50 μ m fiber.

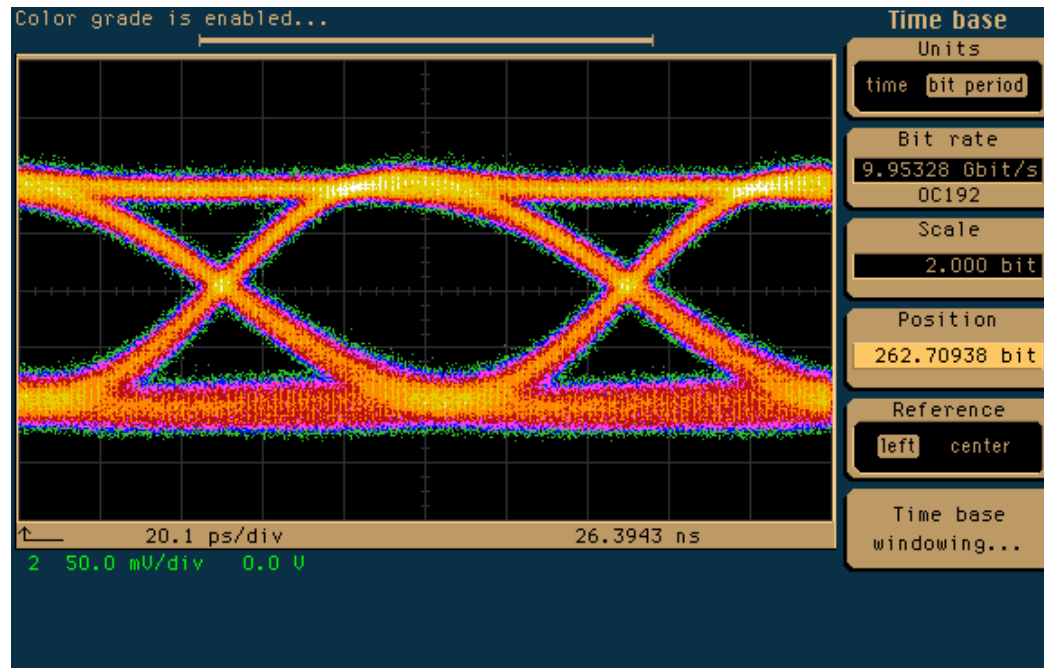


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Gore High Speed 850nm VCSELs

VCSEL
Characteristics



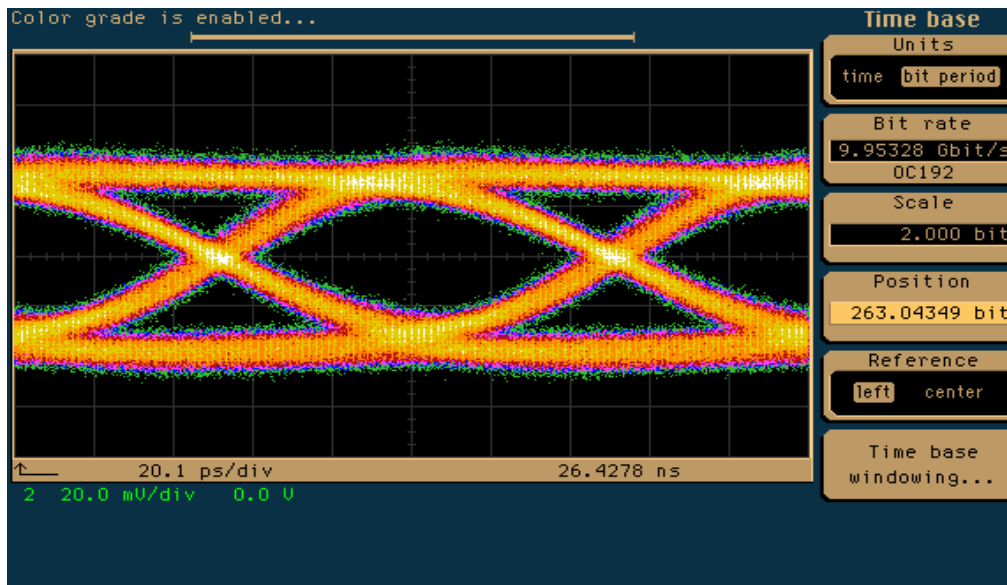
10 Gb/s Gore VCSEL after short jumper



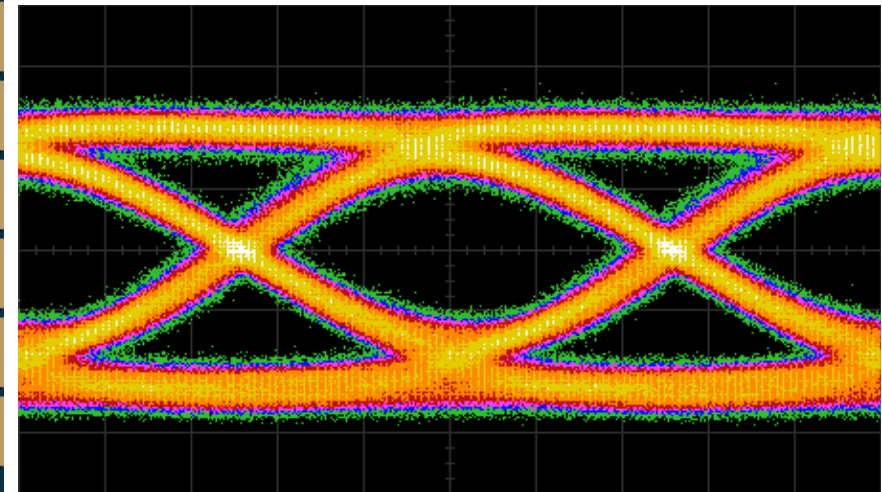
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10 Gbps Eyes



300m 50µm fiber



500m 62.5µm fiber



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CONCLUSION

- 10 Gb/s transmission across 300m minimum of multimode fiber with a 850nm VCSEL is confirmed.
- Transmission distance of 500m has also been demonstrated with a **62.5μm fiber**.



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