

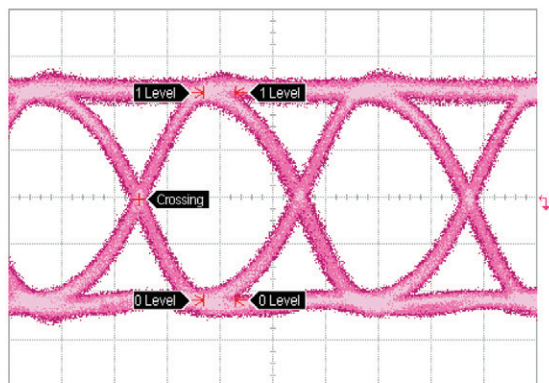
Microsemi Optical Solutions

Product Selection Guide

Microsemi provides high performance optical modulator drivers for 100G+ optical transceivers for long haul, metro, and datacenter applications. Microsemi's family of surface mount drivers enable customers to build smaller optical modules with industry leading signal to noise ratio while simultaneously minimizing power dissipation. Limiting and linear modes of operation are typically supported by the same device. Gain control and peak detection features further help customers optimize system level performance. Our products target a range of form factors such as MSA, CFP, CFP2, CFP4, and QSFP28.

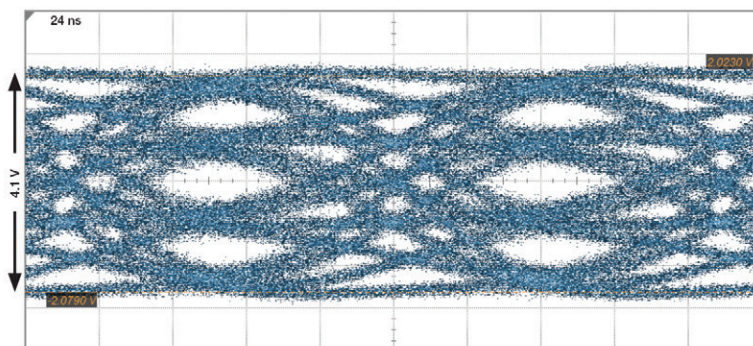
Application	Modules	Baud Rate (Gbaud)	Modulator Type	Linear/Limiting	Products
Line Side, Long Haul	MSA, CFP, Discrete	32	LiNbO ₃ MZM	Linear and Limiting	OA3HVQDSL
Line Side, Long Haul	MSA, CFP, CFP2	64	LiNbO ₃ MZM	Linear	Grizzly3
Line Side, Metro	CFP, CFP2	32	InP MZM	Linear and Limiting	OA3HMQDDL
Line Side, Long Haul/Metro	CFP, CFP2	32	LiNbO ₃ MZM	Linear and Limiting	MO1105AA (Dragon)
Client Side, Data Center	CFP2	28	EML	Limiting and Linear	OA3SSQL
Client Side, Data Center	QSFP28, CFP4	56	InP MZ EML	Linear	MO2101AA

Typical 32 Gbps 7.5 V_{pp} NRZ output eye, OA3HVQDSL



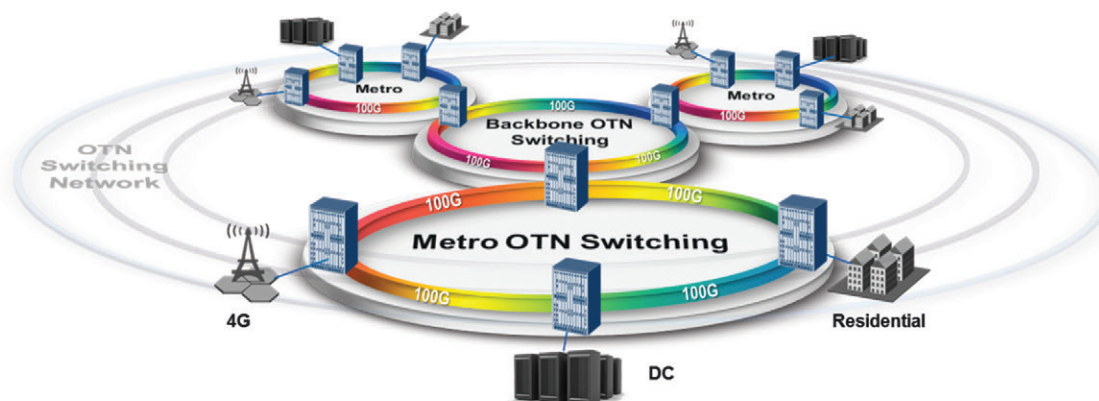
Parameter	Value
Eye Amplitude	7.5 V
Eye Height	5.8 V
Eye S/N	13
Crossing %	48%

Typical 32 Gbps 4 V_{pp} PAM-4 output eye, OA3HVQDSL2

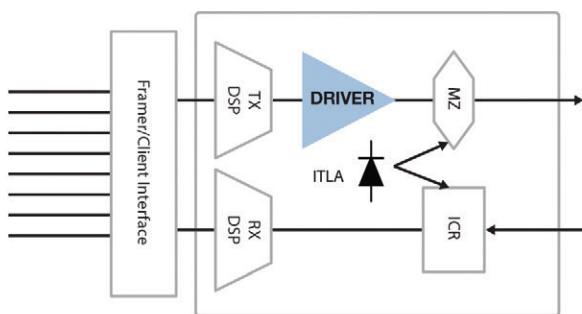


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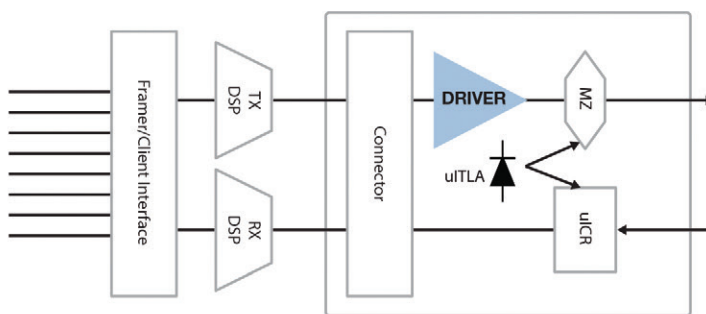
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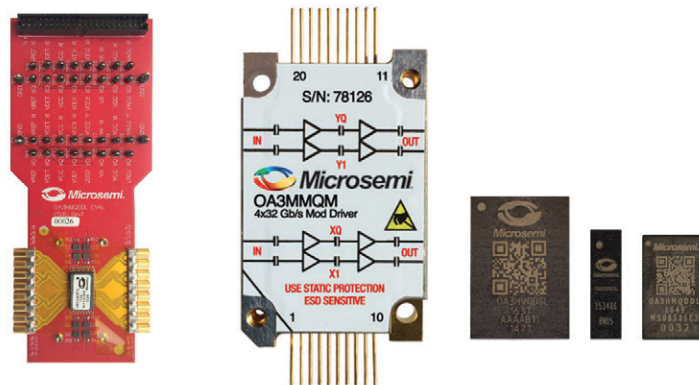
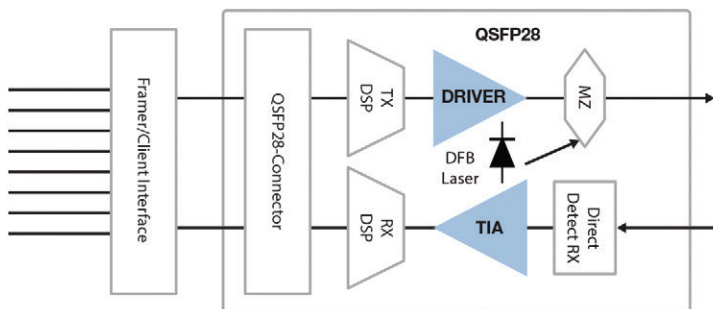
MSA/CFP



CFP2-ACO



QSFP28



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