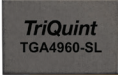
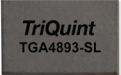




Industry-Leading Performance

For 40G-400G Optical Networks



QORVOTM
all around you

Innovative Optical Solutions

Qorvo innovation sets the standard for optical fiber network modulator drivers, TIAs and linear differential drivers, enabling local access, data center, metro and long-haul optical networks with cost-effective transmit and receive solutions for 100 / 400 Gb/s and beyond. Our limiting and linear optical modulator drivers and TIAs in single-, dual- and quad-channel configurations, lead the industry with the lowest power dissipation, highest performance and surface-mount assembly convenience.

Qorvo is synonymous with quality and reliability, having delivered more than 1 million SMT modulator drivers and several million more MMIC die-level modulator drivers to the world's leading optical network manufacturers using our in-house GaAs manufacturing, module assembly and test. In addition to our single-channel linear solutions, Qorvo's dual-channel linear drivers target DP-QPSK and 16QAM, 100 / 200 / 400 Gb/s applications. The TGA4893-SL leads the industry with high gain, low power dissipation, high ch-ch isolation and low THD. Qorvo module solutions support both CFPx and QFSP28 small form factor (SFF) footprint standards. Our latest designs include TGA4840-SM, ideal for 100G client-side applications including CFP2 form factors, and the TGA4851-SL for CLR4 extended reach (500m-2km) data center applications (QFSP28 FF) provides industry-leading performance and up to 30% lower power dissipation versus competitive solutions.

Part Number	Description	Frequency (GHz)	Vpp	Gain (dB)	3dB BW (GHz)	+V	IQ (mA)
TGA4195-SM	11.3 Gb/s EML Driver, Diff In / Out 4x4mm ²	DC-10	6	26	8	3.3	190
TQP5115	11.3 Gb/s EML Driver, Diff In / Out 4x4mm ²	DC-10	4.5	30	8	3.3	120
TGA4954-SL	9.9-12.5 Gb/s, Optical Modulator Driver	DC-12	9	35	10	5	180
TGA4826-SM	9-18 Gb/s, 3-10 Vpp Linear Modulator Driver	DC-18	3-10	24	15	7	280
TGA4894-SL	100 / 400 Gb/s Linear Dual Driver, SE In / Out	DC-25	5-8	34	25	5-7	615
TGA4898-SL	CFP2-ACO Quad Linear Driver: Diff / Diff	DC-25	3-5 Diff	28	24	-	-
TGA4892-SL	200 Gb/s 16 QAM Linear Dual Driver, 2 Internal Bias-Ts	DC-27	3-5	24	25	5-7	500
TGA4957-SM	28 Gb/s 6 Vpp Differential Driver, 6x6mm ²	DC-28	4-8	22	25	4-5	450
TGA4840-SM	CFP2 / CFP4 Packaged Driver, 4x3mm ²	DC-30	1.5-3	11	28	2.5-3.3	50
TGA4851-SL	QSFP28 Packaged Quad Driver, 7.5x3.75mm ²	DC-30	1.5-3	11	28	2.5-3.3	50
TGA4893-SL	200 / 400 Gb/s Dual Channel SMT Driver: Diff In / SE Out	DC-30	4-5	24	25	5	500
TGA4943-SL	40 & 100 Gb/s, 8 Vpp Optical Modulator Driver	DC-30	4-9	32	30	6	280
TGA4959-SL	32 Gb/s Differential SMT Modulator Driver	DC-30	6-9	24	27	5	428
TGA4960-SL	CFP2-ACO Quad Linear Driver: Diff / Diff	DC-30	3.5 Diff	30	28	-	-
TGA4832	40 Gb/s Wideband Driver, Die	DC-35	4	12	35	5	135
TGA4947-SL	100 Gb/s 8 Vpp Dual Channel SMT Driver with 2 Internal Bias-Ts (High Ch-Ch Isolation)	DC-35	3-9	32	32	5-6	468
TGA4947-MOD	100 Gb/s 8 Vpp Modulator Driver Module: OIF 100 Gb/s Format	DC-35	3-8	30	30	5-6	936
TGA4830	CFP2 / CPF4 Low Power Driver, Die	DC-40	2.5	13	40	5	50
TGA2565-SM	Optical Clock Driver with Integrated AGC: 11.3, 14.5, 16.5 GHz	11-17	27 dBm	27	17	6	210

Qorvo's optical infrastructure portfolio includes die-level TIAs that deliver high-efficiency solutions for varying gain and bandwidth requirements up to 400 Gb/s systems.

Part Number	Description	Bandwidth (GHz)	Differential Transimpedance Gain (ohm)	Differential Output Vpp (mV)	Equivalent Input Noise (pA/rHz)	Voltage (V)	Current (mA)
TGA4872	Dual 32 Gb/s Linear TIA w/AGC	30	7,000	200 to 900	20	3.3	200
TGA4874	Quad 32 Gb/s Linear TIA w/AGC+SPI	30	7,000	200 to 900	20	3.3	400
TGA4864	32 Gb/s Linear TIA w/AGC	28	250 to 4,800	200 to 900	24	3.3	175
TGA4861	13 Gb/s Linear TIA w/AGC	11	250 to 4,800	200 to 900	24	3.3	175
TGA4871*	Quad 100GE Limiting TIA	30	6,000	600	15	3.3	300
TGA4866*	1-Channel 40 Gb/s Limiting TIA	40	2,800	600	15	3.3	75
TIA56	43 Gb/s Limiting TIA	30	4,500	600	30	-5.2	85
TIA56A	43 Gb/s Limiting TIA w/PLD	27	3,200	600	30	-5.2	85

* Coming Q4'15