

Leading the Way on 40 & 100 Gb/s and Emerging Optical Solutions

The need for more efficient, high-speed broadband connectivity is worldwide. This situation has become more critical because of consumers' rapid adoption of 3G / 4G smartphones and other MIDs, triple-play CATV convergence, wireless and wired internet expansion, as well as parallel high-speed backhaul capacity needs. Optical networks remain one of the most cost-effective means to increase bandwidth and network speed through long-haul and metro fiber systems. Fiber to the Home (FTTH) and the emerging RFoG (RF over Glass) standards are efficient ways to expand high-speed broadband services in CATV networks.



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Connecting the Digital World to the Global Network®

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Innovative Optical Solutions

TriQuint supports fiber optical networks with unmatched high-performance Surface Mount Technology (SMT) modulator drivers. We enabled widespread adoption of SMT drivers with our 10 Gb/s portfolio that now includes the TGA4956-SM. TriQuint's newest 10 Gb/s driver offers a compact footprint and high-performance efficiency that helps operators reduce power consumption.

TriQuint is also an innovator supporting emerging 40 and 100 Gb/s optical networks. Our TGA4943-SL is the industry's first 40 and 100 Gb/s surface mount driver and is now available at full production levels. The TGA4826-SM supported the first network deployment of 100 Gb/s service in Europe. Surface mount drivers offer ease of assembly and unparalleled efficiency. TriQuint also offers adaptive SMT modules for compatibility with legacy system designs. TriQuint has collectively supplied nearly 600,000 SMT modulator drivers to the world's leading optical network manufacturers.

Part #	Description	Frequency (GHz)	Vpp	Gain (dB)	3dB BW (GHz)	+V	IQ (mA)
TGA4823-2-SM	9.9-12.5 Gb/s, 3-13 Vpp Linear / Limiting Driver	DC-10	3-13	19	9.5	8	310
TGA4826-SM	9-18 Gb/s, 3-10 Vpp Linear Modulator Driver	DC-18	3-10	24	15	7	280
TGA4943-MOD	40 & 100 Gb/s, 8 Vpp Optical Modulator Driver Module	DC-30	4-9	32	30	6	280
TGA4943-SL	40 & 100 Gb/s, 8 Vpp Optical Modulator Driver	DC-30	4-9	32	30	6	280
TGA4942-SL	22-43 Gb/s, 8 Vpp DPSK SMT Driver, Internal Bias-T	DC-40	5-9	32	35	5-7	335
TGA4953-SL	9.9-12.5 Gb/s, Optical Modulator Driver	DC-12	10	35	10	5	210
TGA4954-SL	9.9-12.5 Gb/s, Optical Modulator Driver	DC-12	9	35	10	5	180
TGA4956-SM	9.9-12.5 Gb/s, 3-7 Vpp Optical Modulator Driver	DC-12	3-7	32	10	3.3-5	120-200

TriAccess™ Innovation for CATV Fiber to the Home & RF over Glass Systems

To better compete in today's markets, incumbent cable operators or new entrants need solutions that effectively provide HDTV, digital voice and high-speed data while leveraging existing network equipment and cable modems. The most effective way to deliver 50 Mb/s or more to the home / premises is to deploy fiber very deep, ideally all the way: Fiber to the Home (FTTH). TriQuint's TriAccess™ product line helps operators meet a key challenge in FTTH development: optimize the network for lowest-cost deployment while meeting a wide range of subscriber expectations.

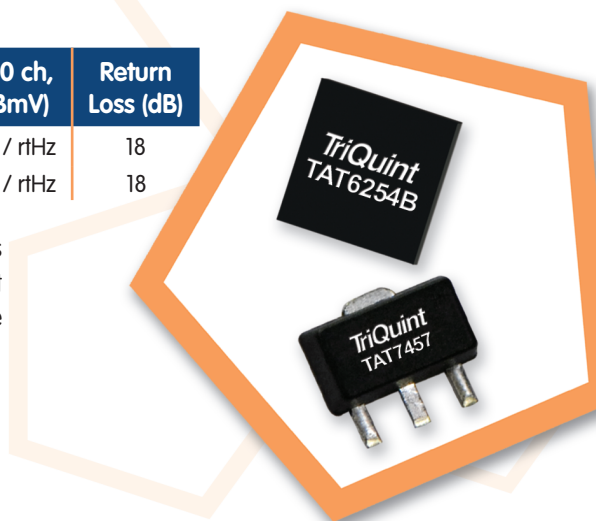
Product	Description	Frequency (MHz)	Gain / AGC Range (dB)	CSO / CTB	EIN (80 ch, 24 dBmV)	Return Loss (dB)
TAT6254C	Low Noise FTTH Amplifier	50-1000	33 / 33	63 / 70	3.9 pA / rHz	18
TAT6254B	Low Noise FTTH Amplifier	50-1000	36 / 24	62 / 62	2.9 pA / rHz	18

TriQuint's TriAccess line, including the TAT6254C and TAT6254D, offers products specifically designed to support the emerging RFoG specification. Our highly-efficient GaAs RFICs align with state-of-the-art CATV optical system requirements for more cost-effective RFoG and FTTH deployments.

CONNECT WITH TRIQUINT.

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