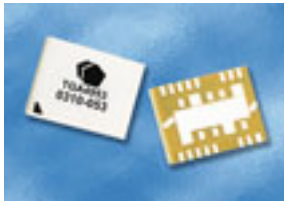


## Modulator Deiver



TriQuint Semiconductor introduces the TGA4953 optical modulator driver for high-speed optical networking applications. The TGA4953 is a multi-chip module consisting of two high performance wideband amplifiers including off-chip bias circuitry assembled in a compact (.350 &#215; .450 &#215; .080 inches) surface mount Land Grid Array (LGA) package. A single TGA4953 placed between the MUX and optical modulator provides OEMs with a board level, surface mount modulator driver solution that is easily integrated onto system line cards or modules using standard production assembly processes. The TGA4953 is suited for bit rates up to 11.2Gbps for optical Non-Return-to-Zero (NRZ) applications including metro multi-rate transponder applications. The TGA4953 provides Metro and Long-Haul designers with system critical features such as: low DC power consumption (1.1 W at  $V_o=6V$ ), very low rail ripple (1% typical), high voltage drive capability at +5 V bias (6 V amplitude adjustable to 3 V), wide crossing control (&#177; 15%), low additive jitter (0.5 ps rms typical), and low input drive sensitivity (250 mV at  $V_o=6V$ ).

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