The MC2009 is a low-noise, transimpedance amplifier with AGC, manufactured in an advanced, low-cost, submicron CMOS process. Its wide dynamic range, differential output and high-PIN bias make it well suited for telecommunications, especially OC-12/STM-4. However, the MC2009 is intended to meet the needs of both telecom and datacom users. The MC2009 is designed to be used with the MC2044C post-amplifier IC. When combined with a photodiode, the chipset forms a high-performance, low-cost 3.3V receiver.