The MC2007 is a low-noise, transimpedance amplifier with automatic gain control (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-3/STM-1. However, the MC2007 is intended to meet the needs of both telecom and datacom users. The MC2007 is designed to be used with the Mindspeed Technologies™ MC2045 post-amplifier IC. When combined with a photodiode, the chipset forms a high-performance, low-cost 3.3 V receiver.