

CCG1401 Programmable Transimpedance Amplifier

Description

The CCG1401 is a universal programmable transimpedance amplifier providing power level control for optical sensor, medical and scientific applications. It operates from a single supply voltage and is controlled via a standard SPI interface. The chip is available in a QFN16 package or tiny 1.9x1.9mm chip scale package (CSP) enabling very small PCB footprints.

Features

- Single supply voltage Integrated UART (COM1-3)
- Power-On Reset functionality
- 5-bit programmable threshold voltage
- Standby mode, low current consumption
- Serial Parallel Interface (SPI)
- ESD-HBM Protection >4kV (QFN16 package)
- Available as 4x4mm QFN16 or 1.9x1.9mm CSP

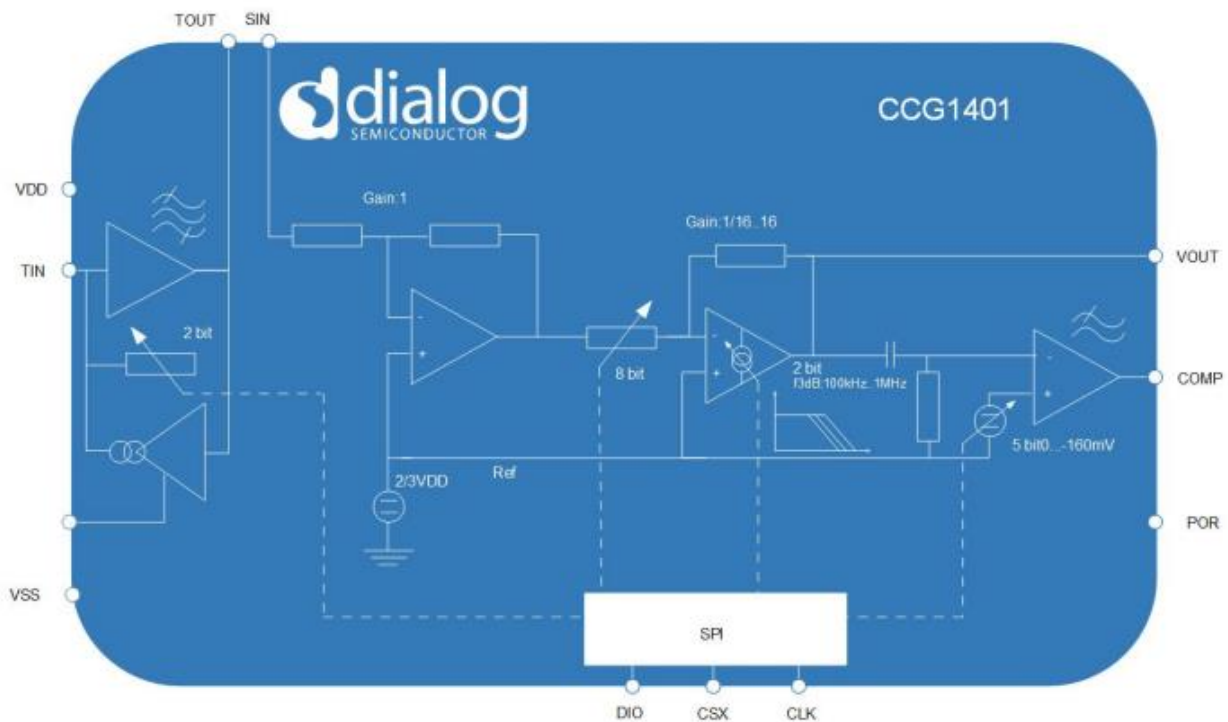
Benefits

- Provides flexible power level control with programmable transimpedance and frequency range
- Small footprint

Applications

- Optical Devices with photo diodes
- Industrial, medical and scientific sensors

Block Diagram



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