

CCG1401 - Programmable transimpedance amplifier

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

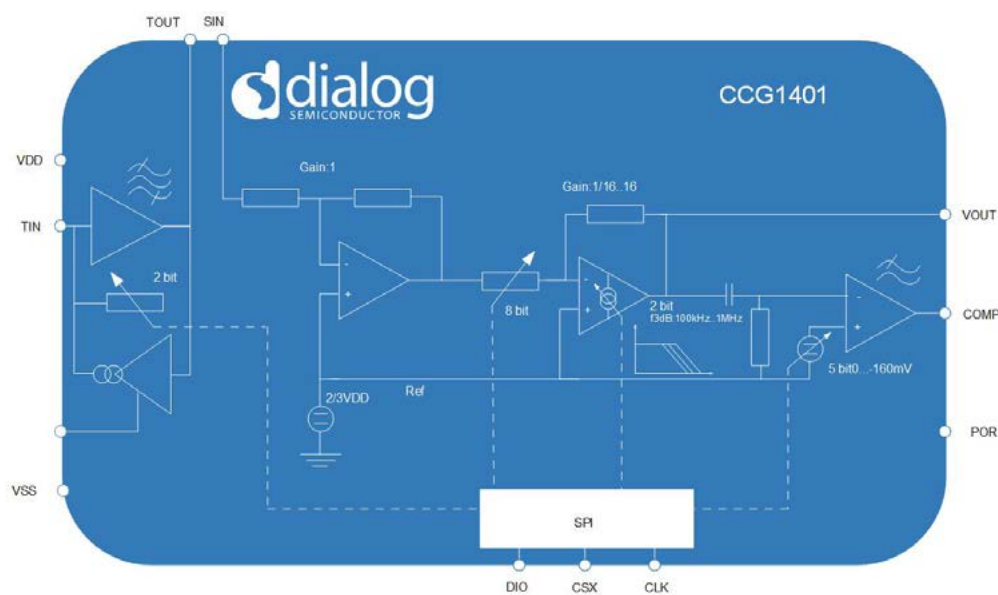
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|-----------------------------------------------------|----------------------------------------------|
| ◆ Single supply voltage (3 to 5.5V) | ◆ Serial Parallel Interface (SPI) |
| ◆ Power-On Reset functionality | ◆ ESD-HBM Protection > 4 kV (QFN16 package) |
| ◆ 5-bit programmable threshold voltage | ◆ Available as 4x4mm QFN16 or 1.9x1.9mm CSP |
| ◆ Standby mode, low current consumption (15µA max.) | ◆ Operating Temperature Range -40°C to 125°C |

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



Datasheet