

#### ULTRA LOW POWER HALIOS® PRODUCT PREVIEW - NOV 08, 2012

E909.11



#### **Features**

- Supply voltage range 2.2 V to 3.6 V
- Lowest stand-by current of 0.4 μA
- ► Up to 1 MHz HALIOS® frequency
- ► 3 independent sending channels
- ► Each sending channel with up to 100mA LED current
- Ambient Light Measurement (ALS)
- ► High speed I<sup>2</sup>C interface (up to 3.4 MHz)
- New electro-optical basic coupling implemented
- Front-end solution to be used with any MCU
- Small size chip-scale-package or QFN

#### **Added Values**

- HALIOS® the No. 1 IR sensor in the automotive market
- Almost no external components needed
- Cyclic measurements for lowest power consumption
- ► Immune against any ambient light up to 200 klx
- ALS independent from proximity detection
- Excellent temperature stability, sensitivity and speed
- Reference electrical schematics and layout are available

# **Applications**

- High performance proximity detection up to 500 mm
- Fast and reliable 3D gesture control solution for mobile and industrial devices

### **General Description**

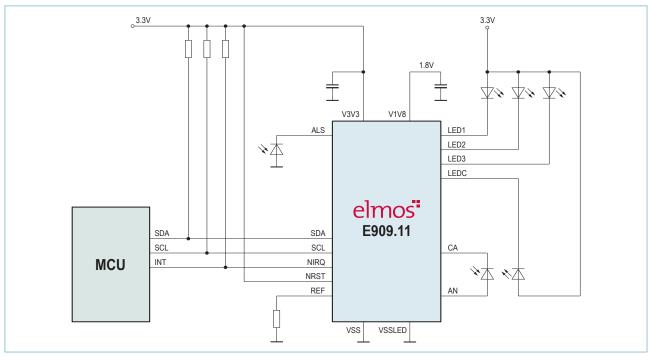
Far reaching, stable proximity detection and an ALS input enables highly improved quality for well known features. Proven optical reliability – the original from the inventor!

Lowest current consumption together with the outstanding HALIOS® advantages makes this product suitable for every (mobile) device. The high HALIOS® frequency shortens the active measurement time to the minimum. Easy to use due to optimized pre-settings based on many years of application experience.

## **Ordering Information**

Product ID	Temp Range	Package
E909.11	-40°C to +85°C	chip scale
E909.11	-40°C to +85°C	QFN20L4

## **Typical Application Circuit**



This document contains information on a product under development. ELMOS Semiconductor AG reserves the right to change or discontinue this product without notice.

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