

# Melexis

INSPIRED ENGINEERING

MLX90632

SURFACE MOUNT

MINIATURE INFRARED (IR)  
THERMOMETER IC



Pit viper snakes have a cool heat sensing system to find prey in the dark. The pit is a special organ that senses body heats from animals and gives an infrared heat vision which accurately judges distance and size.

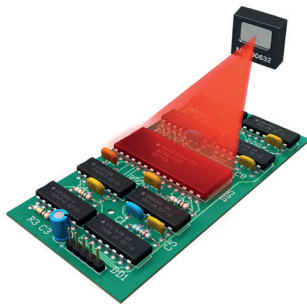
## ROBUST TEMPERATURE SENSING WHEN SIZE REALLY MATTERS

### MLX90632

MLX90632 is a miniature SMD thermometer IC for accurate non-contact temperature measurement, especially in thermally dynamic environments and when available space is limited. Primary applications for this device can be found in server rooms, white and gray goods, room temperature monitoring in smart thermostats or integration into portable electronics devices such as tablets and smartphones.

### KEY FEATURES

- ✓ accurate and stable operation in thermally challenging environments
- ✓ 3x3x1mm QFN package, eliminating the need for bulky TO-can packages
- ✓ factory calibrated with I2C digital interface, 50° field of view
- ✓ object temperatures between -20°C and 200°C within -20°C to 85°C operational temperature range can be measured
- ✓ typical target object temperature accuracy of  $\pm 1^\circ\text{C}$  can be obtained



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