# **EVE MLX90640**



## **Overview**

The EVE MLX90640 is a fully calibrated 32x24 pixels thermal IR array.

The MLX90640 contains 768 FIR pixels. An ambient sensor is integrated to measure the ambient temperature of the chip and supply sensor to measure the VDD. The outputs of all sensors IR, Ta and VDD are stored in internal RAM and are accessible through I<sub>2</sub>C.

## **Features and Benefits**

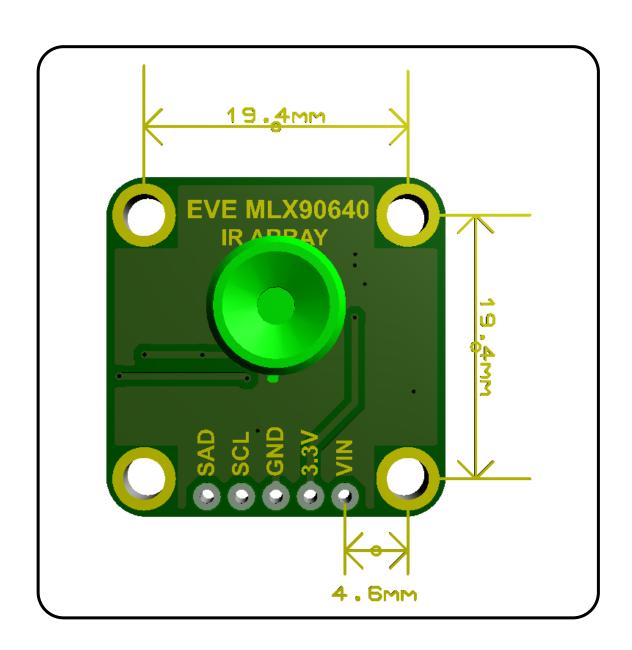
- Small size
- Easy to integrate
- Factory calibrated
- Noise Equivalent Temperature Difference (NETD) 0.1K RMS 1Hz refresh rate
- I2C compatible digital interface
- Programmable refresh rate 0.5Hz...64Hz
- 3.3V/5V supply voltage
- Current consumption less than 23mA
- FOV -110°x75°
- Operating temperature -40°C ÷ 85°C
- Target temperature -40°C ÷ 300°C

#### **SPECIFICATION:**

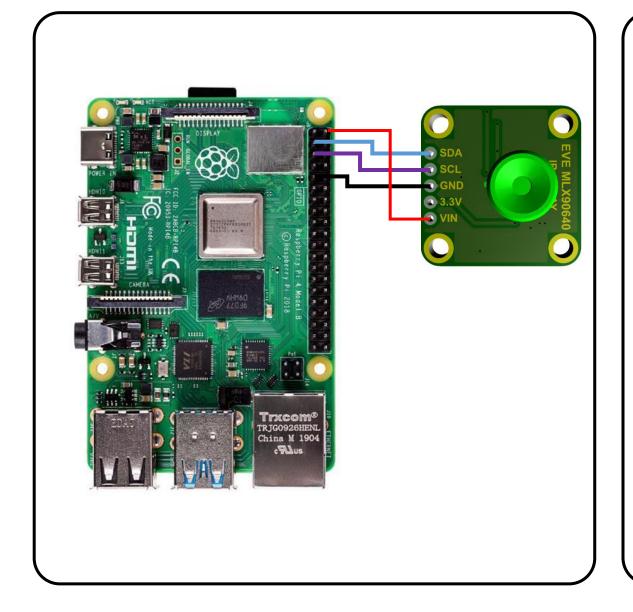
Dimensions: 25 x 25 mm

Power : Operates through External supply 3.3 /5V

## **Dimensions**



## **Connection with Raspberry PI**



## **Raspberry PI pinouts**

