MAX86177EVSYS

Evaluation Kit for the MAX86177

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Overview

Features and Benefits   Product Details

- Quick Evaluation of the MAX86177
- Supports Optimization of Configurations
- Facilitates Understanding MAX86177 Architecture and Solution Strategy
- Real-Time Monitoring
- Data Logging Capabilities
- On-Board Accelerometer
- Bluetooth® LE
- Windows® 10-Compatible GUI Software

The MAX86177 evaluation system (EV system) allows for the quick evaluation of the MAX86177 optical AFE for applications at various sites on the body, particularly the wrist. The EV sys supports both I^2C and SPI compatible interfaces. The EV sys has four optical readout channels that operate simultaneously. The EV sys allows flexible configurations to optimize measurement signal quality at minimal power consumption. The EV sys supports file logging and flash logging, allowing the user to disconnect from the computer for more convenient data capturing sessions, such as overnight or outdoor running.

The EV sys consists of two boards. MAXSENSORBLE_ EVKIT_B is the main data acquisition board while MAX86177_OSB_EVKIT_A is the sensor daughter board for the MAX86177. To enable PPG measurement capabilities, the sensor board contains six LEDs (two OSRAM SFH7016, red, green, and IR 3-in-1 LED package) and eight discrete photodiodes (OSRAM SFH2704), and an accelerometer. The EV sys is powered through a LiPo battery attached inside it and can be charged using a Type-C port. The EV Sys communicates with MAX86177GUI (should be installed in user's system) using Bluetooth® built into Windows (Win BLE). The EV sys contains the latest firmware but comes with the programming circuit board MAXDAP-TYPE-C in case a firmware upgrade is needed.

Applications

- Optical Heart Rate
- Optimized performance for high SNR PPG signal to detect
- Oxygen Saturation (SpO_2)
- Suitable for Wrist, Finger, Ear, Chest, and Abdomen
- Wearable Devices for Fitness, Wellness & Medical Applications

Markets and Technologies

Consumer (2)

Healthcare (4)

Applicable Parts

- MAX86177

Package Contents

- MAX86177 EV system wrist band, including

    MAXSENSORBLE_EVKIT_B board

    MAX86177_OSB_EVKIT_A board

    Flex cable

    105mAh Li-Po battery LP-401230

- Cypress USB Bluetooth® LE dongle CY5677

- USB-C to USB-A cable

- MAXDAP-TYPE-C programmer board

- Micro USB-B to USB-A cable

Getting Started

Complete documentation is available upon completion of a Non-Disclosure Agreement (NDA). To request an NDA, click here.

System Requirements

- MAX86177 EV system
- Cypress USB Bluetooth® LE dongle CY5677
- USB-C to USB-A cable

- Windows® PC with USB port
- 105mAh Li-Po battery LP-401230
- Microsoft.NET framework 4.7.2 or above

Buy

Pricing displayed is based on 1-piece.

A myAnalog account is required.
You must before proceeding

MAX86177EVSYS#

Description
EV Kit