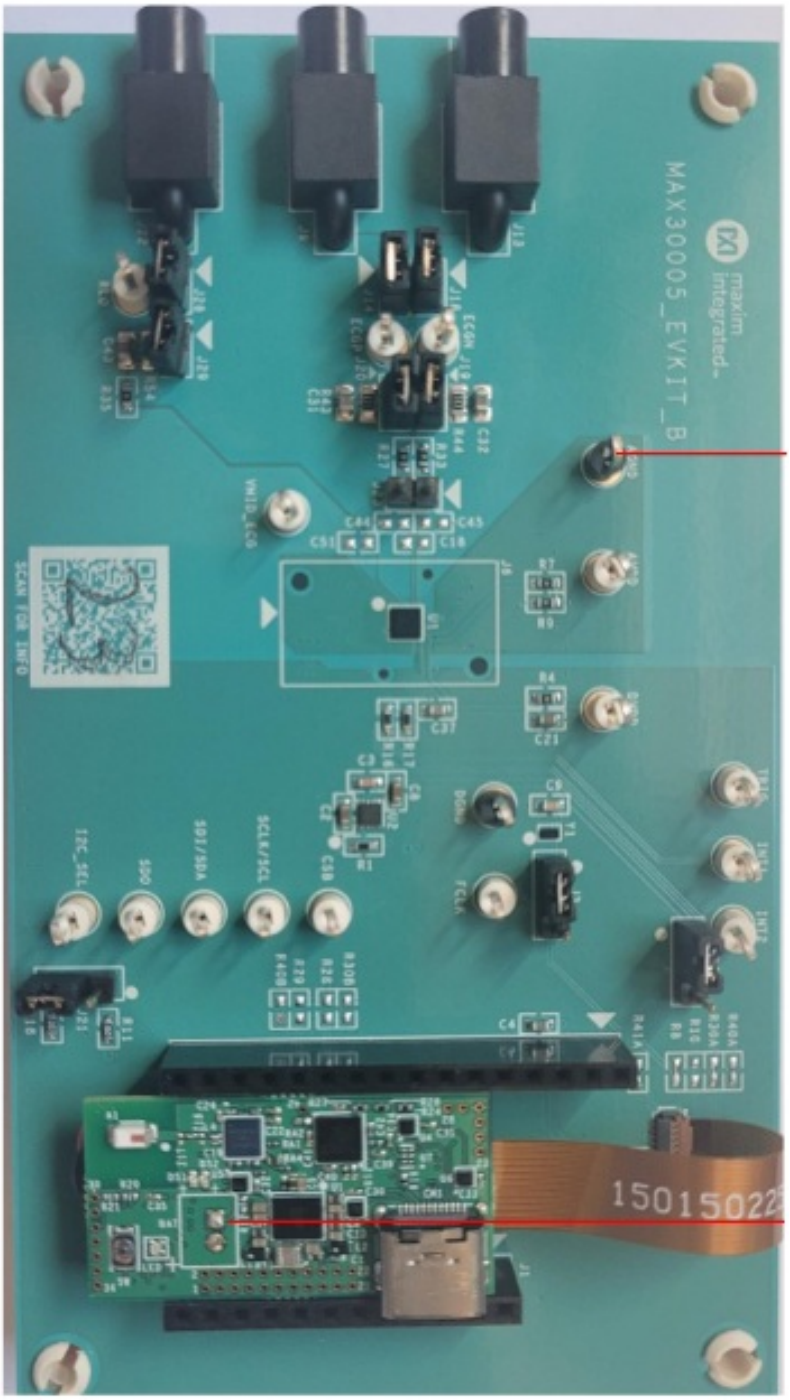
ANALOG DEVICES MAX30005 Evaluation Kit Owner's Manual

Contents

ANALOG DEVICES MAX30005 Evaluation Kit



Specifications

- **Product:** MAX30005 Evaluation Kit
- **Components:** MAX30005_EVKIT_B sensor board, MAXSENSORBLE_EVKIT_B microcontroller board, 105mAh Li-Po battery LP-401230, USB-C to USB-A cable, MAXDAP-TYPE-C programming board, Micro USB-B to USB-A cable, Three ECG cables
- **Trademark:** Windows is a registered trademark of Microsoft Corporation, Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

Product Usage Instructions

General Description

The MAX30005 Evaluation Kit (EVK) PCB is designed to showcase the capabilities of the MAX30005. Please note that due to the flexibility of the PCB, the kit may not fully achieve all data sheet performance specifications.

Features

For detailed ordering information, refer to the end of the datasheet.

EV Kit Contents

- MAX30005_EVKIT_B sensor board
- MAXSENSORBLE_EVKIT_B microcontroller board
- 105mAh Li-Po battery LP-401230
- USB-C to USB-A cable
- MAXDAP-TYPE-C programming board
- Micro USB-B to USB-A cable
- Three ECG cables

FAQ

- **Q: Can I use the MAX30005 Evaluation Kit with other microcontrollers?**
  - **A:** The kit is designed to work specifically with the MAXSENSORBLE_EVKIT_B microcontroller board for optimal performance. Compatibility with other microcontrollers may vary.
- **Q: How do I charge the Li-Po battery included in the kit?**
  - **A:** Use the provided USB-C to USB-A cable to connect the battery to a power source for charging. Ensure proper handling of the battery to prevent damage.
- **Q: Is it possible to extend the ECG cables for a longer reach?**
  - **A**: While not recommended for optimal performance, you may use compatible extension cables to extend the reach of the ECG cables. Ensure proper connections to maintain data integrity.

Click **here** to ask an associate for the production status of specific part numbers.

General Description

The MAX30005 evaluation kit (EV kit) provides a platform to evaluate the functionality and features of the MAX30005 electrocardiogram (ECG) measurement capabilities. The EV kit contains flexible hardware and software configurations to help the user quickly learn how to configure and optimize the MAX30005 for their own applications.

The MAX30005 is a complete ECG analog front-end solution that features a single-lead ECG channel equipped with EMI filtering, internal lead biasing, AC and DC leadoff detection, ultra-low power lead-on detection, calibration voltages, and right leg drive.

The MAX30005 EV kit consists of two boards;

MAXSENSORBLE_EVKIT_B is the microcontroller (MCU) board while MAX30005_EVKIT_B is the sensor board containing the MAX30005. The EV kit can be powered through a USB connection to PC using a USB-C to USB-A cable or a Li-Po Battery. The EV kit communicates with MAX86176_MAX30005 GUI (should be installed in the user system) via Bluetooth® (WIN BLE). The EV kit contains the latest firmware but comes with the programming

circuit board MAXDAP-TYPE-C in case a firmware change is needed.

The MAX30005 EVK PCB is designed to provide maximum flexibility for the demonstration of the MAX30005. Because of this flexibility, the MAX30005 might not achieve all of the data sheet performance specifications when operating on this PCB.

Features

- Convenient Platform to Evaluate the MAX30005
- Many Easy-to-Reach Test Points
- Real-time Monitoring and Plotting
- Data Logging Capabilities
- Bluetooth® LE
- Windows® 10 Compatible GUI software
- Facilitates IEC 60601-2-47 Compliance Testing

Ordering Information appears at end of the data sheet.

EV Kit Contents

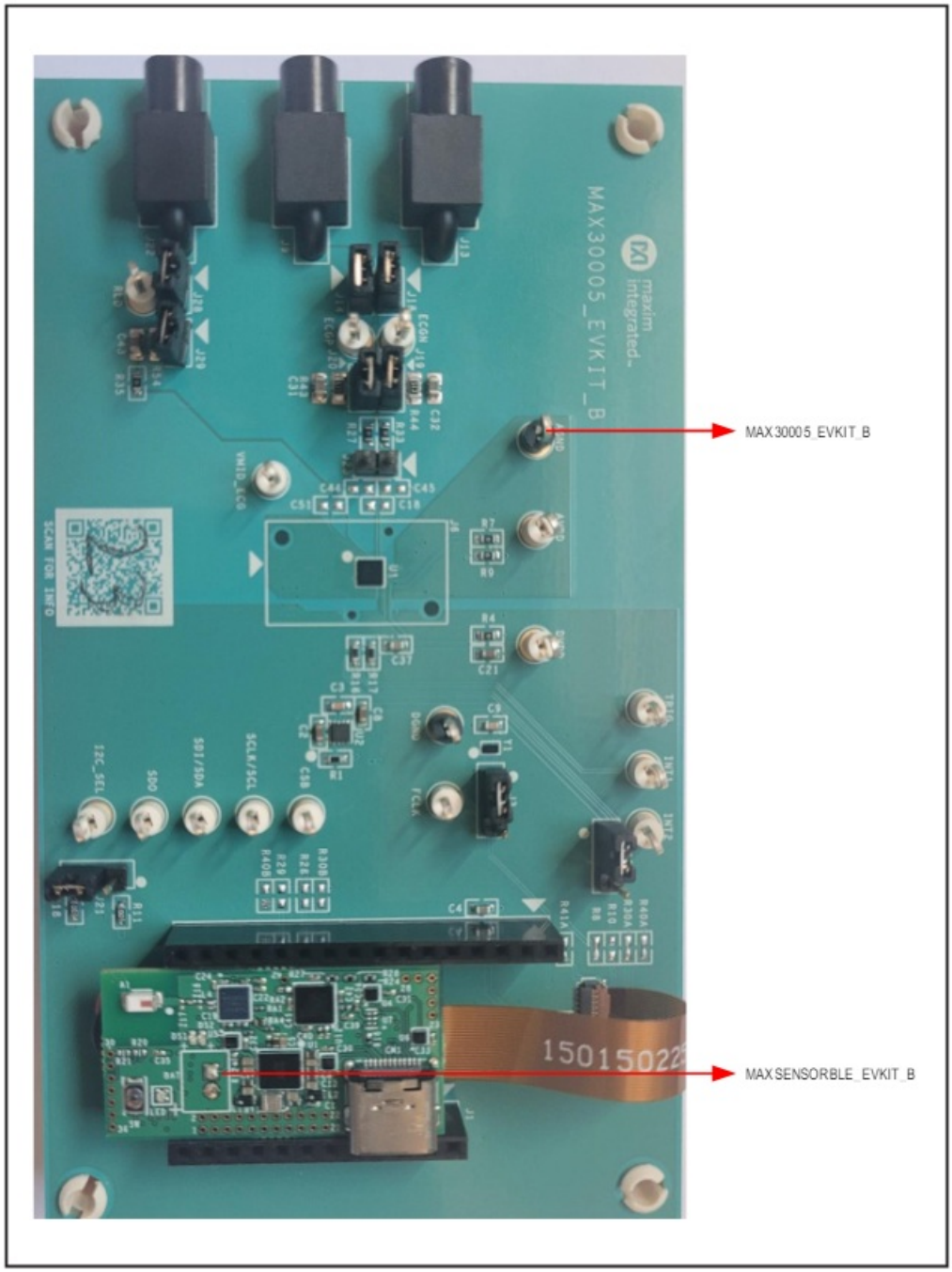


Figure 1. Photo of EV kit

- MAX30005_EVKIT_B sensor board
- MAXSENSORBLE_EVKIT_B microcontroller board
- 105mAh Li-Po battery LP-401230
- USB-C to USB-A cable
- MAXDAP-TYPE-C programming board
- Micro USB-B to USB-A cable
- Three ECG cables

Visit **Web Support** to complete the nondisclosure (NDA) required to receive additional product information. Windows is a registered trademark and registered service mark of Microsoft Corporation. Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

MAX30005 Evaluation Kit Evaluates: MAX30005

MAX30005 Evaluation Kit

Evaluates: MAX30005

Notes

www.analog.com

- One Analog Way, Wilmington, MA 01887 U.S.A.
- **Tel:** 781.329.4700

Documents / Resources

	ANALOG DEVICES MAX30005 Evaluation Kit [pdf] Owner's Manual MAX30005_EVKIT_B, MAXSENSORBLE_EVKIT_B, MAX30005 Evaluation Kit, MAX30005, Evaluation Kit, Kit

References

- User Manual