

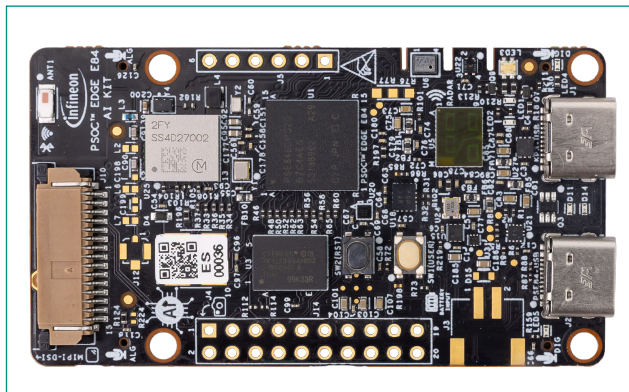
QUICK START GUIDE

PSOC™ Edge E84 AI Kit

KIT_PSE84_AI

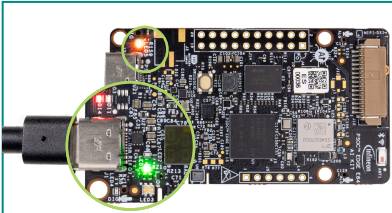
Kit contents

1. PSOC™ Edge E84 AI board
2. 0.3 MP USB camera module with USB-C cable

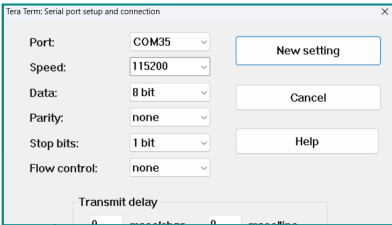


www.infineon.com/KIT_PSE84_AI

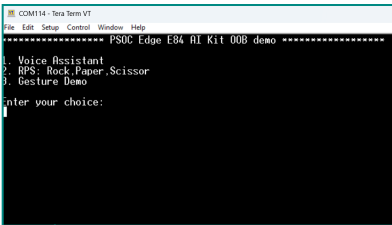




1 Connect the kit to the PC



2 USB-UART COM port settings



3 Serial terminal

Note: The applications listed in the sample image may vary from the actual applications available in the Out-of-box (OOB) demo.

Before you start, ensure you have the following:

1. PC with a USB port.
2. UART terminal software such as Tera Term or Minicom.

Connect and power up the board

1. Connect the board to your PC using the USB-C cable at the USB-C connector (J1) and ensure the amber LED (LED5) is ON.
2. The green LED (LED1) starts blinking indicating that the Out-of-box demo has started.

Connect the kit with the UART terminal software

1. Open Tera Term and select the KitProg3 USB-UART COM port with following settings:
 - Baudrate: 115200, Data bit: 8, Parity: None, Stop bit: 1, Flow control: None
2. Press the reset/black button (SW2) on the board.

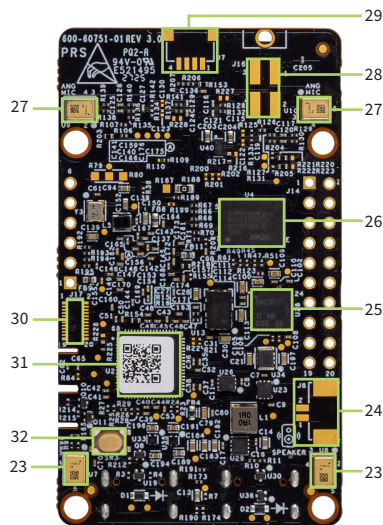
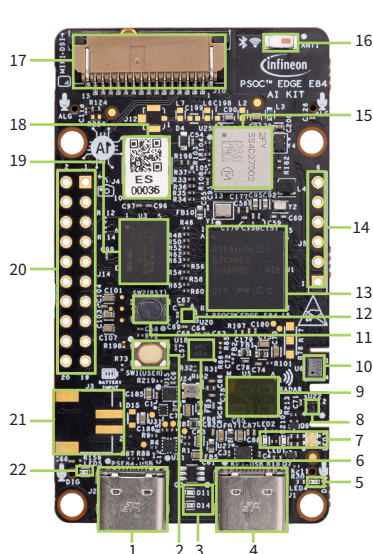
Note: If you are unable to connect to a PC to run the Out-of-box (OOB) demo, press the user button (SW1) on the board to run the Voice Assistant application. The blue LED (LED2) will turn on, indicating that the Voice Assistant application is running.

Run the pre-programmed code example

1. Observe the boot-up message displayed on the serial terminal. A menu appears listing the demo applications pre-programmed into the kit.
2. Select the application to be demonstrated by entering the corresponding option number via keyboard input.
3. Press the B (or b) key on the keyboard, or press the reset (black) button (SW2) on the board, to return to the main menu from the running application.
4. Follow the on-screen instructions to execute the demo.

To experience various other applications, please visit the [Web-based OOB webpage](#).

KIT_PSE84_AI PSOC™ Edge AI board details

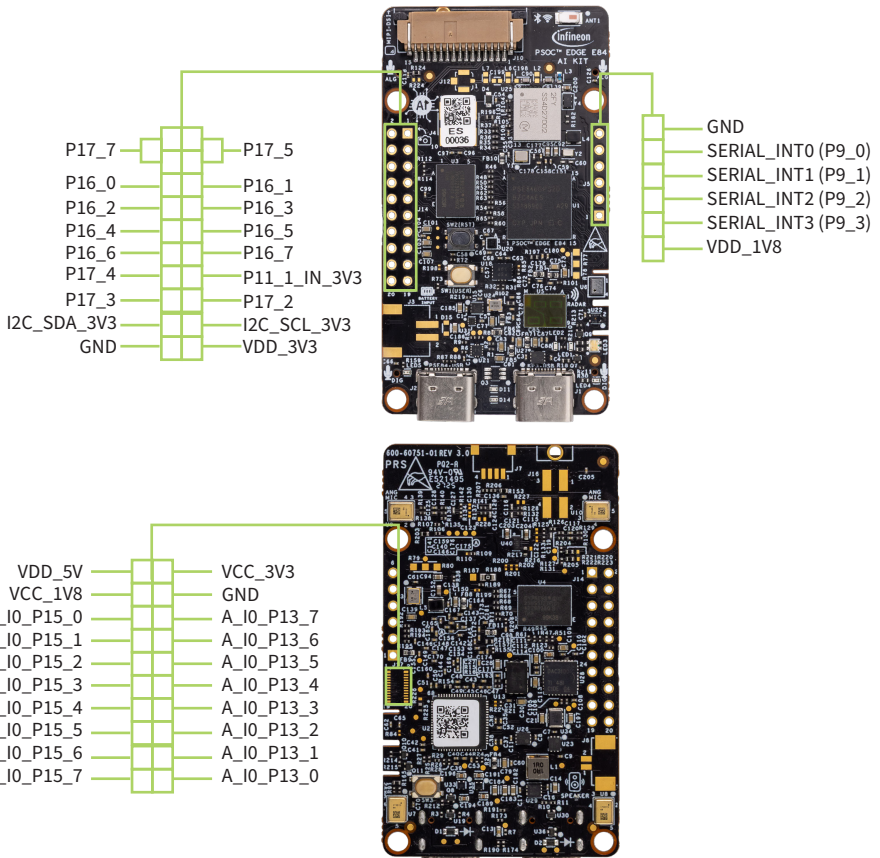


- 1 PSOC™ Edge E84 USB-C device/host connector (J2)
- 2 PSOC™ Edge E84 MCU user button (SW1)
- 3 PSOC™ Edge E84 USB-C host/device mode indication LEDs (D11, D14)
- 4 KitProg3 program/debug USB-C connector (J1)
- 5 KitProg3 status LED (LED4)
- 6 6-axis IMU – Bosch Sensortech (BMI270, U18)
- 7 User LEDs (LED1, LED2, LED3)
- 8 Humidity and temperature sensor – Sensirion (SHT40-AD1B-R, U22)
- 9 XENSIV™ 60 GHz RADAR sensor (BGT60TR13C, U5)
- 10 XENSIV™ digital barometric pressure sensor with built-in temperature sensor (DPS368, U6)
- 11 PSOC™ Edge E84 MCU reset button (SW2)
- 12 3-axis magnetometer - Bosch Sensortech (BMM350, U20)
- 13 PSOC™ Edge E84 MCU (PSE846GPS2DBZC4A, U1)
- 14 Expansion I/O headers (J5)*
- 15 CYW55513-based Murata Type 2FY radio module (LBEE5HY2FY, U25)
- 16 Wi-Fi/Bluetooth® antenna (ANT1)
- 17 Raspberry Pi compatible MIPI-DSI display connector (J10)
- 18 PSOC™ Edge E84 MCU 10-pin SWD/JTAG program and debug header (J4)*
- 19 128-Mbit Octal-SPI HYPERRAM™ (S70KS1283GABHI020, U3)
- 20 3.3 V supported I/O expansion header (J14)*
- 21 Battery input connector (J3)*
- 22 Power LED (LED5)
- 23 XENSIV™ digital MEMS microphones (IM73D122V01, U7, U8)**
- 24 Speaker connector output (J8)*
- 25 Audio DAC and Amplifier (U28)**
- 26 512 - Mb Quad-SPI NOR flash (S25HS512TFABHI013, U4)**
- 27 Analog microphones (IM73A135V01XTSA1, U9, U10)**
- 28 Display power and capacitive touch I2C connector (J16)*
- 29 I2C interface (J7)*
- 30 Analog I/O interface header (J17)*
- 31 KitProg3 (PSOC™ 5LP) programmer and debugger (CY8C5868LTI-LP039, U2)
- 32 KitProg3 programming mode selection button (SW3)**

* Footprint only, not populated on the board

** Component is located at the bottom side of the board

KIT_PSE84_AI PSOC™ Edge AI board pinout details



See the kit guide available at www.infineon.com/KIT_PSE84_AI for more details.

Trademarks

All referenced product or service names and trademarks are the property of their respective owners.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Infineon is under license.

PSOC™, formerly known as PSoC™, is a trademark of Infineon Technologies. Any references to PSoC™ in this document or others shall be deemed to refer to PSOC™.