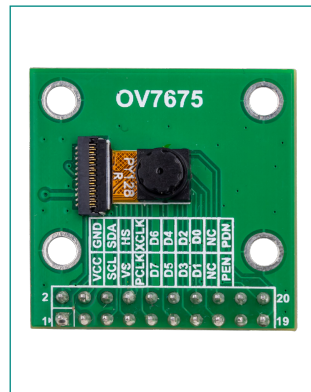


PSOC™ Edge E84 AI Kit

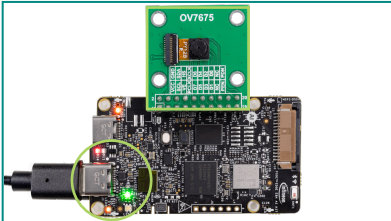
Kit contents

1. PSOC™ Edge E84 AI board
2. OV7675 DVP Camera module

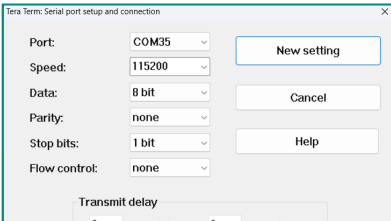


www.infineon.com/KIT_PSE84_AI

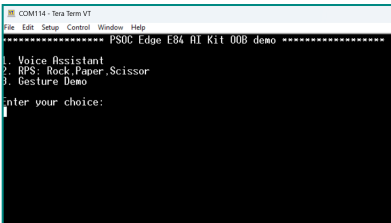




1 Connect the kit to PC



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 USB port.
2. UART terminal software such as Tera Term or Minicom.

Connect and power up the board

1. Optionally connect the OV7675 camera module to header (J14) based on code example requirement.
2. Connect the board to your PC using the USB-C cable at USB-C connector (J1).
3. 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.

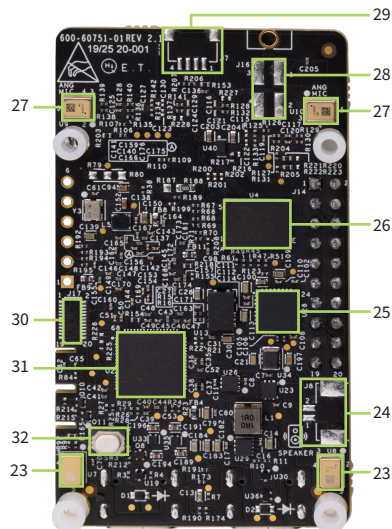
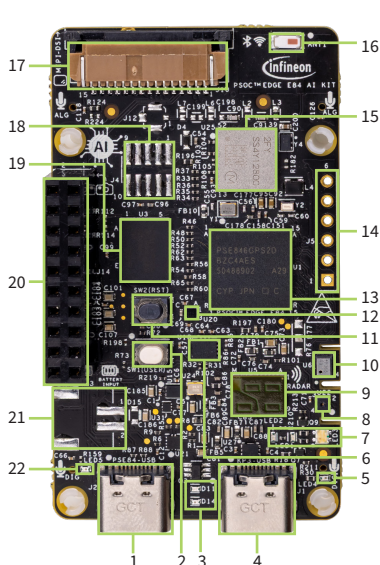
Run the pre-programmed code example

1. Observe the boot-up message 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. Enter 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 application that was running.
4. Follow the on-screen instructions to execute the demo.

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

Refer to the kit guide available at the [kit webpage](#) for more details.

KIT_PSE84_AI PSOC™ Edge AI board details

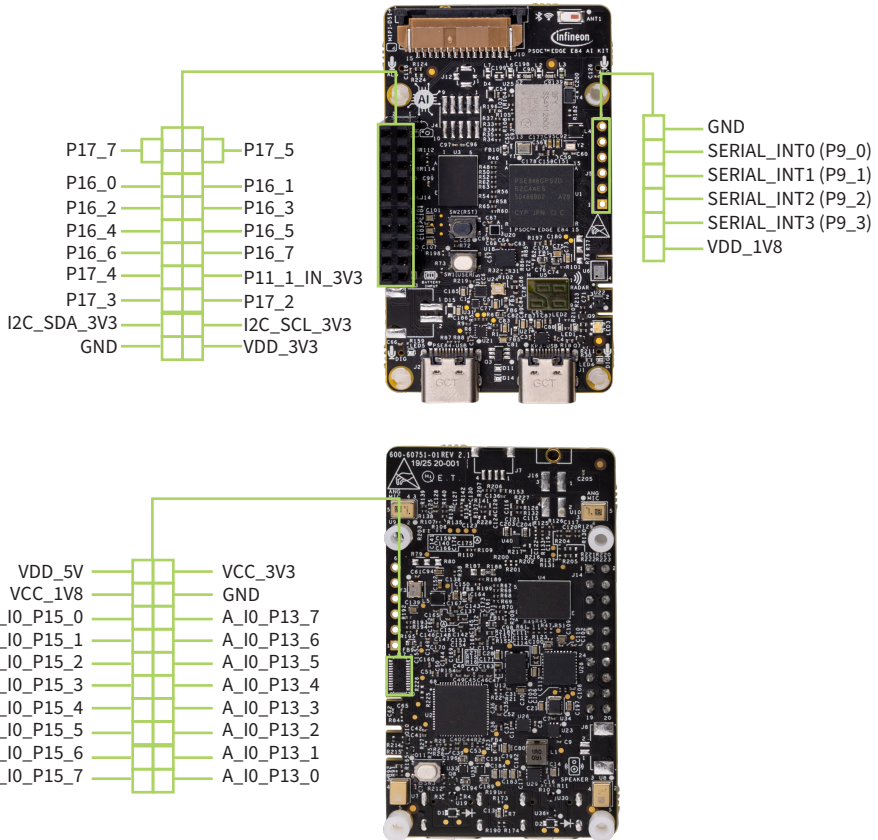


- | | |
|--|--|
| 1 PSOC™ Edge E84 USB-C device/host connector (J2) | 18 PSOC™ Edge E84 MCU 10-pin SWD/JTAG program and debug header (J4)* |
| 2 PSOC™ Edge E84 MCU user button (SW1) | 19 128-Mbit Octal-SPI HYPERRAM™ - S70KS1283GABHI020 (U3) |
| 3 PSOC™ Edge E84 USB-C host/device mode indication LED's (D11, D14) | 20 DVP Camera interface header (J14) |
| 4 KitProg3 program/debug USB-C connector (J1) | 21 Battery input connector (J3)* |
| 5 KitProg3 status LED (LED4) | 22 Power LED (LED5) |
| 6 6-axis accelerometer and gyroscope (U18) | 23 XENSIV™ digital MEMS microphones - IM73D122V01 (U7, U8)** |
| 7 User LEDs (LED1, LED2, LED3) | 24 Speaker connector output (J8)* |
| 8 Digital humidity and temperature sensor (U22) | 25 Audio DAC and Amplifier (U28)** |
| 9 XENSIV™ 60 GHz RADAR sensor - BGT60TR13C (U5) | 26 512 - Mbit Quad-SPI NOR flash - S25HS512TFABHI013 (U4)** |
| 10 XENSIV™ digital barometric pressure sensor with built-in temperature sensor - DPS368 (U6) | 27 Analog Microphone - IM73A135V01XTSA1 (U9, U10)** |
| 11 PSOC™ Edge E84 MCU reset button (SW2) | 28 Raspberry Pi compatible display capacitive touch connector input (J16)* |
| 12 3-axis magnetometer (U20) | 29 I2C interface (J7)* |
| 13 PSOC™ Edge E84 MCU - PSE846GPS2DBZC4A (U1) | 30 Analog I/O interface header (J17)* |
| 14 Expansion I/O headers (J5)* | 31 KitProg3 (PSOC™ 5LP) programmer and debugger - CY8C5868LT1-LP039 (U2)** |
| 15 CW55513-based Murata Type 2FY module (U25) | 32 KitProg3 programming mode selection button (SW3)** |
| 16 Wi-Fi/Bluetooth® antenna (ANT1) | |
| 17 Raspberry Pi compatible MIPI-DSI display connector (J10) | |

* 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.

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