

Radicom Research, Inc.

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www.radi.com**Wireless AI camera sensor EVK RA6000 Series****Serial/BLE/WiFi/Ethernet Interface**

Radicom RA6000 series provides a reference design from **AI camera to wire Ethernet & wireless WiFi/Bluetooth communication**. The Evaluation Kit integrates a powerful **low power CPU** and an **ultra low power camera module** into WiFi, Ethernet LAN, Bluetooth modules. With many I/O ports, RA6000 series can support Arduino I/O interface plus I2C, SPI and UARTs ports at plug and play level which is very easy for developers to expand new features and capability. Featuring self-contained communication subsystem, streamlined and simple connectivity and complete software development environment, the Evaluation Kit allows embedded system integrators to incorporate all communication plus camera and sensors technology into one develop platform that previously may need many different platforms.

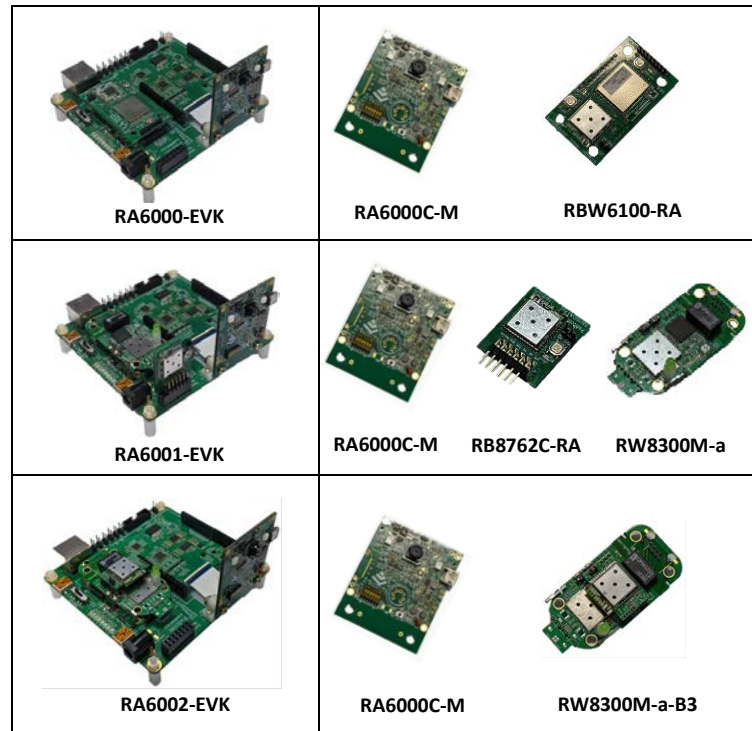
The RA6000 series is designed to fully support Radicom many FCC/IC/CE certified communication modules for supporting short range Bluetooth wireless, middle range WiFi wireless, or with wire Ethernet to reach worldwide communications, which can save developers' time and certification efforts.

Depending on modules supported in the RA6000 series Evaluation Kit can be divided into the following categories

- RA6000-EVK
 - o RA6000MB: MB board with through hole (DIP) pins for module
 - o RA6000C-M: Camera module board
 - o RBW6100-RA: BT 5.1 + WiFi module
- RA6001-EVK
 - o RA6000MB: MB board with through hole (DIP) pins for module
 - o RA6000C-M: Camera module board
 - o RW8300M-a: WiFi module
 - o RB8762C-RA: BT 5.1 module
- RA6002-EVK
 - o RA6000MB: MB board with through hole (DIP) pins for module
 - o RA6000C-M: Camera module board
 - o RW8300M-a-B3: WiFi +BT 5.1 module

Application:

- Sensor AP or client station
- Camera signal router station



- Security monitoring solution
- Sensor signal preprocessing system
- POS with intelligent camera capability
- Remoter control/monitor system

Features:

- A very powerful DSP CPU
- GNU compiler supported
- Interface: USB, SPI, I2C, LAN, UART, J-TAG, ADC, GPIOs
- Embedded WiFi router/repeater
- Embedded Ethernet and switch
- Embedded **BLE 5.1 with mesh capability**
- Ultra low power camera module
- Support various sensors
- Easy module upgradable
- Support power 5V operation
- Industrial operating temperature range
- Small size for EVK: 3.94" x 3.5" x 2.1" (100x85x53.4 mm)
- Sensor add-on easily
- Firmware upgradeable
- Support many FCC/IC/CE certified modules
- RoHS compliant