

Lab System Architecture

Sensors Actuators

Accelerometer

Magnetometer

Gyroscope

Compass

Servo

Ultrasound

Camera

IR gesture

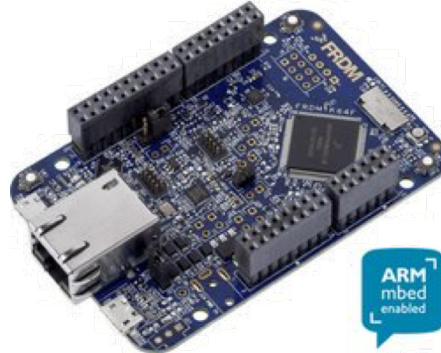
RF ID

Display

16 Character x 2
Line LCD

128*128 color LCD

ARM M4 + Mbed



WIFI Bluetooth Zigbee



Linux workstation



GPIO

I2C/SPI

PWM

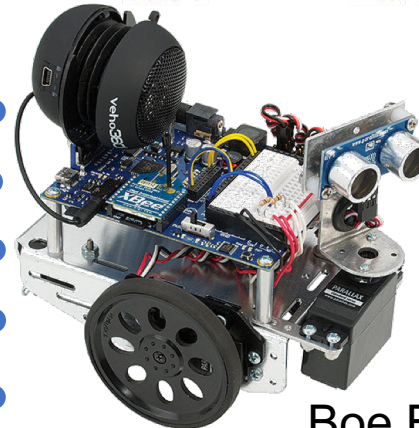
ADC/DAC

USB

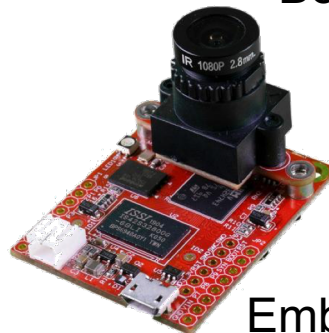
Ethernet

USB/program

USB/terminal



Boe Bot Car



Embedded Vision