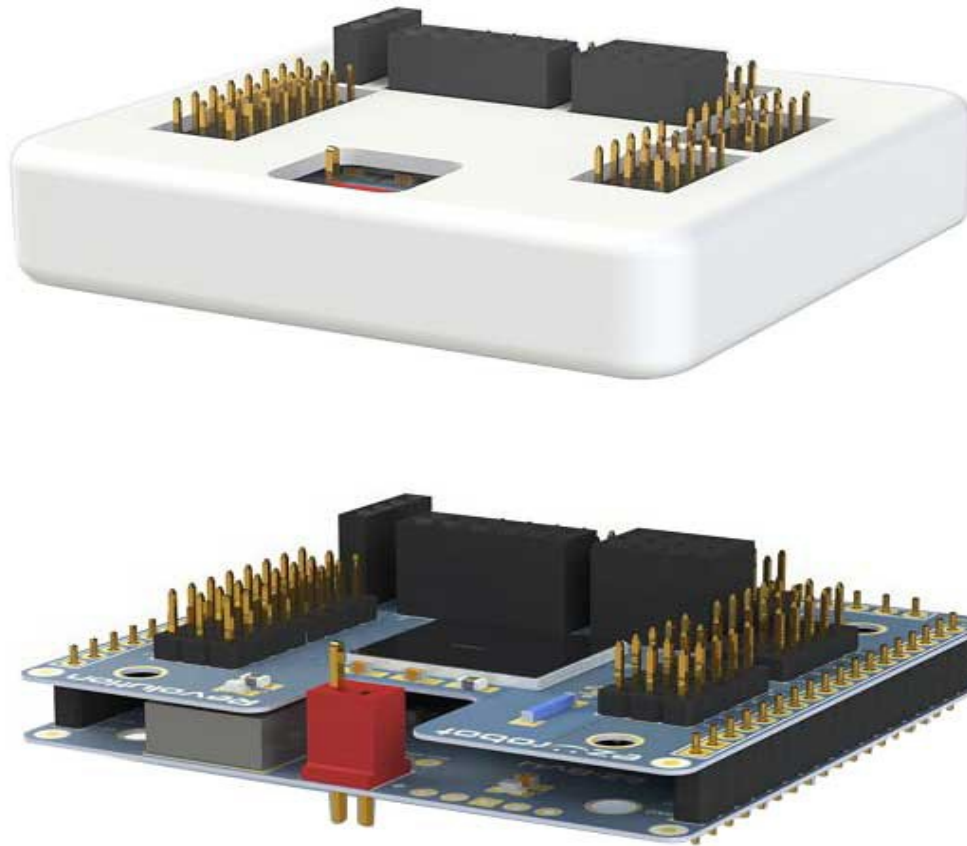**RB-Ezr-04**
EZ-B V4 WiFi Robot Controller

The EZ-B Wifi Controller can be purchased separately to start customizing your robot from EZ-Bits or when creating a robot from scratch. This is the brains of your EZ-Robot. With the electronics protected by a stylish plastic shell, the EZ-B v4 clips into your EZ-Robot Revolution chassis or custom robot. This controller is easily programmed over Wi-Fi from the EZ-Builder Software.

The EZ-B v4 boasts 200mhz of 32-bit Processors (ARM Cortex M3 & Microchip PIC32) , 5 Volt Tolerant I/O, Energy Efficient Digital Switching Power Supply, Wi-Fi Connectivity with security, Embedded Web Server, Amplified Digital Audio with Speaker, 3 i2c ports, UART, 24 Multi-use Servo/Digital/Serial ports, 73 Servos (Dynamixel & PWM), 8 Analog ports, and Integrated Video... All packed in a mini 2.1" x 2.2" size!

The EZ-B is controlled from either the graphical EZ-Builder Software on your PC or mobile device without needing to program. The less time you spend fiddling with compilers, hardware programmers and debuggers, the more time you spend building and designing robotic projects. Do those words confuse you? Compiler? Microcontroller? If so, then the EZ-B is for you!

EZ-B v4 Wi-Fi Robot Controller
The EZ-B v4 is the World's most powerful robot controller... It's a brain for your robot. The EZ-B v4 scales for beginner and advanced users. The EZ-B is two PCB's sandwiched together in a compact 2x2 inch package. For protection, the speaker and electronics are enclosed within a stylish white plastic shell with a speaker chamber for clear enhanced audio. For advanced users, the EZ-B may be removed from its casing and mounted directly in your custom robot.

Features

- 200MHz 32-Bit Processing (120 MHz 32-bit Cortex M3 ARM Processor & 80 MHz Microchip PIC32)
- Small Size (2.1" x 2.2")
- WiFi connectivity (Ad-Hoc/Infrastructure/WEP/WPA/WPA2)
- Embedded Web Server
- Energy Efficient Digital Switching Power Supply
- Resettable fuse protection
- Reverse polarity protection
- 1 x Amplified Speaker for Speech and Music
- 8 x 5 volt tolerant Analog (ADC) ports
- 24 x 5 volt tolerant Digital ports (servos, PWM, and more)
- Up to 73 Servos (combining PWM and Dynamixel)
- Dynamixel AX-12 Servo Support
- 3 x i2c Port
- 1 x EZ-Robot Camera Port
- 1 x High Speed UART Port

Education and Home

In the classroom or at home, EZ-Robot revolution has a big impact on education. Not only do students learn about robotics, they have fun doing it. With hundreds of tutorial videos, there are no questions left unanswered. The EZ-Robot community forum is busy with members helping to solve problems and invent new ideas. Personalizing EZ-Robot behaviours and actions teach students how robots walk, see, hear and interact with their surroundings. EZ-Robot Revolution has the same effect on the classroom as the Personal Computer did in 1985. With the growing field of robotics, students using EZ-Robot today will be prepared for a future in the upcoming industry.

EZ-B v4 Brain

All EZ-Robots are powered by the World's most advanced robot controller, the EZ-B v4. Powered by two 32-bit processors (Cortex M3 ARM & Microchip PIC32), this little controller runs at an astounding 200mhz. The EZ-B v4 also includes onboard Wifi Connectivity, Embedded Web Server, Energy Efficient Digital Switching Power Supply, Amplified Digital Audio, 24 x Digital/Servo ports, 73 Servos (Dynamixel & PWM), 8 x Analog, 3 x i2c and UART. What does all that mean? Power and scalability to keep your EZ-Robot ahead of the game!

EZ-Builder

If hardware is the heart of your EZ-Robot, then software is the soul. Your robot is controlled by the World's most powerful and scalable robot control software. EZ-Builder takes a productive and unique approach to programming your robot, EZ-Builder uses graphical controls which represent features and functions. Simply add new controls to your robot and enable behaviors such as Camera Tracking, Speech Recognition, Wii Controller, Joystick, GPS, Accelerometer, HTTP Server, GAIT Positioning, and hundreds more!

Includes

1 x EZ-B v4 WiFi Robot Controller in ABS Plastic Shell
1 x Power Shell
EZ-Builder Robot Control Software and EZ-SDK

Dimensions
- Width: 5cm
- Length: 5cm
- Height: 3cm
- Weight: 0.035kg