# Comparison Table (Simple Version)

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| --- | --- | --- |
| Feature | Microcontroller (like Arduino) | Single-Board Computer (like Raspberry Pi) |
| Main Use | Controls simple tasks | Can do many tasks like a small computer |
| System | No operating system | Has an operating system (like Linux) |
| Power Use | Uses very little power | Uses more power |
| Start Time | Starts very fast | Takes longer to start |
| Power | Not very powerful | More powerful |
| Connections | Few connections | Has many ports and wireless options |
| Price | Cheaper ($2–$20) | More expensive ($30 and up) |
| Coding | Uses simple code like C/C++ | Can use many languages like Python |

# When to Use Each

## Use a Microcontroller When:

1. You need to save power (like in a sensor or small device).

2. You need it to react very fast (like controlling lights or motors).

## Use a Single-Board Computer When:

1. You need to do many things at once or use big programs.

2. You want to connect a screen, use Wi-Fi, or do internet tasks.