**Comparison Table**

| **Parameters of Comparison** | **Arduino** | **8051 Microcontroller** |
| --- | --- | --- |
| **What it is** | It is a microcontroller board along with its IDE and before tested software and hardware libraries | Family of 8 bits microcontroller |
| **Power Supply** | 6 Volts – 20 Volts (7-12 volts is recommended) | 5 Volts – 6.6 Volts |
| **Developed By** | Interaction Design Institute Ivrea (IDII) | Intel Corporation Company |
| **Clock Speed** | 16 MHz (increased up to 20 MHz) | 12 MHz |
| **Machine Cycle** | 1 clock cycle equals one machine cycle | 12 clock cycles complete equals one machine cycle |
| **Programming** | Arduino Ide | Keil Uvision IDE |
| **Support Ad-ons** | Separate development kits are available and give a strong support | Separate development kits are available and provide poor support |