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| Modules Attached   * ADXL345 Digital Accelerometer * XBEE Series-2 Pro Module * PIC18F2580 Audio Slave * 7-Segment display * Ready LED * Throw strength LEDs * IR receivers * IR transmitter * Reload switch * Programming header | Internal Resources Available   * 4 16-bit Timers * 2 PWM Modules * I2C, SPI, EUSART, MSSP, PSP * 13 ADC Channels * 40 MHz Internal Oscillator * 32 KB ROM * 1.5 KB RAM |

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| **Resources Needed** | | | | | |
| Unit | Special Functionality | Ports | # Pins | Interrupts | Timers |
| Accelerometer | SPI | RC(5:2) | 4 | 0 | 0 |
| XBee | UART Rx/Tx | RC(7:6) | 2 | 1 | 0 |
| Audio Chip | Parallel protocol | RA(7:5), RE(1:0) | 5 | 0/1 | 0 |
| 7-Segment display | -- | RD(7:4) | 4 | 0 | 0 |
| Ready LED | -- | RA(4) | 1 | 1 | 1 |
| Throw Strength LEDs | -- | RA(3:0) | 4 | 1 | 0/1 |
| IR receivers | External interrupt pin | RB(2) | 1 | 1 | 1 |
| IR transmitter | Pulse Width Modulation | RB(3) | 1 | 0 | 1 |
| Reload switch | -- | RB(4) | 1 | 0 | 0 |
| Programming header | MCLR, PGD, PGC, PGM | RB(7:5), RE(3) | 4 | 0 | 0 |
| **Total:** | | | **27** | **5** | **4** |