Fast Start (Requires Little Arduino Knowledge)

1) Apply voltage to board. We uploaded Test code inside.
2) Dipswitch 1 opens motors, back & forward. Dipswitch 2 opens User Led Toggle and Dipswtich 3 and button changes which led blinking.
3) Download the Xmotion library from jsumo.com/xmotion
4) #include <xmotion.h>
5) Start from basic example codes, and turn page for description of each element

Xmotion Function Cheat Sheet

- **xmotion.UserLed1(time_ms); Used in loop function Blinks Led 1 example: xmotion.UserLed1(100); 100ms Blink.**
- **xmotion.UserLed2(time_ms); Used in loop function Blinks Led 2 example: xmotion.UserLed2(100); 100ms Blink.**
- **xmotion.ToggleLeds(time_ms); Blinks 2 User Led with time_ms interval.**
- **xmotion.CounterLeds(time_ms, int Multiplier); Makes 2 Led blink in For loop. Example xmotion.CounterLeds(1000,5); // Total 5 Second Toggle Time.**
- **xmotion.Trimpot(); Gives Trimpot Analog value between 0 - 1023**
- **xmotion.VoltageIn(); Gives Input Voltage in float number.**
- **xmotion.LipoCutOff(int Cell); Cut Offs, stops Xmotion according to LiPo Battery Cell. Example: xmotion.LipoCutOff(3); // If battery voltage is lower than 10.8V (3,6x3) it will stop at this function.**
- **xmotion.Forward(%Percent,Time_ms); Both motor Forward Function. Example: xmotion.Forward(80,300); // %80 speed, 300ms forward.**
- **xmotion.StopMotors(Time_ms); Both motors stop according to time value in millisecond. Example: xmotion.StopMotors(800); // 800ms Stop.**
- **xmotion.Backward(%Percent,Time_ms); // Both motor backward Function. Example: xmotion.Backward(25,100); // %25 speed, 100ms backward.**
- **xmotion.Right0(%Percent,Time_ms); Right Turning One motor forward, other backward. Example: xmotion.Right0(50,155); // %50 Speed, 155 mS Right turning.**
- **xmotion.Left0(%Percent,Time_ms); Left Turning One motor forward, other backward. Example: xmotion.Left0(50,1800); // %50 Speed, 1800 mS Left turning.**
- **xmotion.ArcTurn(%LeftPercent,%RightPercent,Time_ms); //Both Motors forward in different speeds with time variable. Example xmotion.ArcTurn(20,70,100); //Left %20 Speed, Right %70 Speed, 100 mS.**

Xmotion Pin Usage

Arduino Pin	Feature	Arduino Pin	Feature
D0	Free	D11	Right Motor PWM (Speed)
D1	Free	D12	Left Motor Direction
D2	Free	D13	Right Motor Direction
D3	Left Motor PWM (Speed)	A0	Voltage Sensor
D4	Free	A1	Free
D5	Dipswitch Input 1	A2	Free
D6	Dipswitch Input 2	A3	Trimpot
D7	Dipswitch Input 3	A4	Free
D8	User Led 1 Output	A5	Free
D9	User Led 2 Output	Extra D15	Free, RX Written, MOSI
D10	Button & Start Pin Input	Extra D16	Free, TX Written, SCK