Test Writer	Sabin Maharjan								
Test Case Name	Throttle and Pitch Set Test Test ID 1								
Description	Communicate with MWC Flip 1.5 Flight Controller using MultiWii Serial	Type:							
	Protocol (MSP) commands to set the throttle and pitch for the drone.								
Name of the Tester	Sabin Maharjan Date May 15								
Hardware Version	N/A	N/A Time 8:33 I							
Required	 Drone Intel Edison with breakout board GPIO Board attached to Intel Edison MWC Flip 1.5 Flight Controller WIFI with SSH connection with Edison 2x Mini USB –type B connector 4 female-female pin connector 								
	- Stake - Rope								
Pre-Requirement	- RC read test - Arm/Disarm test - Throttle test								
Setup	Connect Mini USB to Console port of the Intel Edison. Connect 4 female-female pin connector from serial port (Tx, Rx, Gnd, 5v) of the Flip 1.5 Flight Controller to GPIO Board's Serial Pin heads (Rx, Tx, Gnd, 5v). The blue light on Edison should be on. Red light on Flip 1.5 Controller should be on. Login to Edison using root. Change directory to "Drone/src". Type "make all". The following actions are done under this directory. The minimum throttle value set in multiwii's config.h file is 1220. In the code, the default throttle value is set to 1095. Motor turns at throttle value 1100								
	For Step 1-4, No Drone battery connection required. For Step 5-8, Done battery connection is required. Remove Propellers from the motors. For Step 9-11, Done battery connection is required. Add Propellers on the motors. The drone should be ties to the stake with the rope and make sure no one is closer to drone than 5ft.								
	Console Command: ./drone control								

Ste	Action	Header	Length	Code	Data	CRC	Expected Result	P/F	Comment
		3x(uint8_t)	(uint8_t)	(uint8_t)	4x(uint16_t)	(uint8_t)			
1	Press right	\$M<	16	200	1500 1501 1500	221	Value of pitch goes	р	
	key				1000		up by 10		
2	Press right	\$M<	16	200	1500 1502 1500	194	Value of pitch goes	р	
	key after 1				1000		up by 10		
	second								

3	Press left key after 1	\$M<	16	200	1500 1501 1500 1000	221	Value of pitch goes up by 10	р	
	second								
4	Press left key after 1	\$M<	16	200	1500 1500 1500 1000	216	Value of pitch goes up by 10	p	
	second				1000		ap by 10		
9	Кеер	\$M<	16	200	1500 1500 1500	varies	The drone takes	р	Hovers at
	pressing up key				[varies with the key press]		off from the ground		throttle value 1715
	every				y p. 200]		8.00.10		1710
	second								
	until drone								
	makes a								
	lift off.								
10	Keep	\$M<	16	200	1500 [varies	varies	The drone moves	р	Moved
	pressing right key				with the key press] 1500 [forward. (away from the tester)		forward at pitch value
	every				varies with the		nom the tester)		1560
	second				key press]				
	until								
	drone makes a								
	forward								
	movement								
11	Keep	\$M<	16	200	1500 [varies	varies	The drone moves	р	
	pressing left key				with the key press] 1500		backward. (towards the		
	every				[varies with the		tester)		
	second				key press]				
	until								
	drone makes a								
	forward								
	movement								