Test Writer	Sabin Maharjan							
Test Case Name	Throttle Test	Test ID	1					
Description	Communicate with MWC Flip 1.5 Flight Controller using MultiWii Serial	Type:						
	Protocol (MSP) commands to set the throttle for the drone.							
Name of the Tester	Sabin Maharjan Date May 15,							
Hardware Version	N/A Time 8:33 P							
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 and arm/disarm tests should be completed							
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								
	Login to Edison using root. Change directory to "Drone/src". Type "make	all". The fo	ollowing 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							
	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 9-10, Done battery connection is required. Add Propellers on th	e motors.	The drone should					
be ties to the stake with the rope and make sure no one is closer to drone than 5ft								
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	Console Command: ./drone control							

Step	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 up	\$M<	16	200	1500 1500 1500	221	Value of throttle	Р	
	key				1101		goes up by 10		
2	Press up	\$M<	16	200	1500 1500 1500	194	Value of throttle	Р	
	key after				1102		goes up by 10		
	1 second								
3	Press	\$M<	16	200	1500 1500 1500	221	Value of throttle	Р	
	down				1101		goes down by 1		

	key after								
	1 second								
4	Press down key after 1 second	\$M<	16	200	1500 1500 1500 1100	216	Value of throttle goes down by 10	Р	
5	Keep pressing the up key every second	\$M<	16	200	1500 1500 1500 [varies]	221	The motor starts to spin at throttle 1100	P	
6	Keep pressing the down key every second	\$M<	16	200	1500 1500 1500 [varies]	194	The motor spin stops to spin at throttle 1099	P	
9	Keep pressing up key every second	\$M<	16	200	1500 1500 1500 [1000 varies with the key press]	varies	The drone takes off from the ground with increase in throttle.	P	Hovers at throttle value 1715
10	Keep pressing up key every second.	\$M<	16	200	1500 1500 1500 [1000 varies with the key press]	varies	The drone decreases the throttle and lands on the ground.	P	