Test Writer	Sabin Maharjan						
Test Case Name	Throttle 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, 2016				
Hardware Version	N/A	Time	8:33 PM				
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 connectorStake						
	- 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 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 9-10, 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 throttle						

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

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