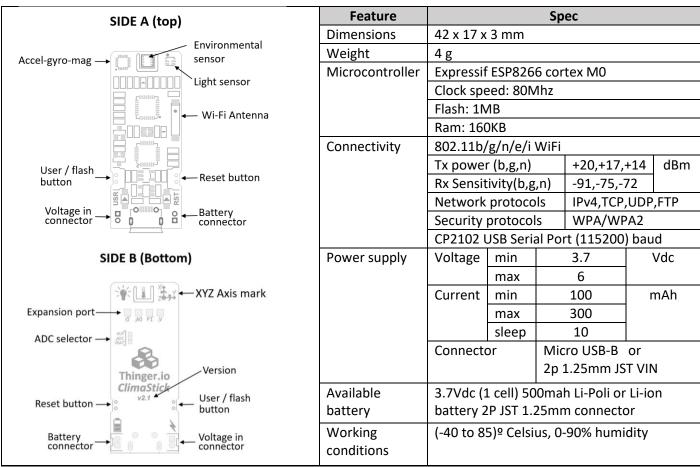
## Thinger.io *ClimaStick* v2 Datasheet

This board is a complete Internet of Things development kit, that integrates Wi-Fi connectivity along with a set of powerful sensors to provide environmental and motion sensing. This way, it is possible to create several connected projects easily. It is fully compatible with the Thinger.io cloud infrastructure and the Arduino environment.

## **GENERAL INFORMATION**



Feature		Spec					
Embedded	Sensor	Variable	Range	Resolution	Accuracy	Condition	
Sensors	BME280	Temperature	( -40 , 85 ) ºC	0.01 ºC	( <u>+</u> 0.5 , <u>+</u> 1 ) ºC		
(I2C)		Relative humidity	(0,100)%Rh	0.01 %Rh	( <u>+</u> 1 , <u>+</u> 3 ) %Rh	( 0 , 60 ) ºC	
		Barometric pressure	(300, 1100) hPa	0.18 hPa	( <u>+</u> 0.1 , <u>+</u> 1)hPa	TCOP 25-65 °C, 900 hPa	
	TSL2561	Light	(0 , 65535) Lux	0.01 Lux	<u>+</u> 3.5 lux	(-30,70)ºC (0,95)%Rh	
	MPU-9250	Magnetometer	<u>+</u> 4800μT	0.6 μT/LSB	<u>+</u> 500μT	( -40 , 85 ) ºC	
		Accelerometer	<u>+</u> 16 g	2048 LSB/g	(2-16)LSB/g	92Hz total RMS noise	
		Gyroscope	<u>+</u> 2000º/sec	16.4º/sec	0.01º/s /√Hz	LPF range (5-250KHz)	
Voltage	ADC	VIN / BAT voltage	( 0 , 5 ) Vdc	0.01 Vdc	0.1 Vdc	( -10 , 60 ) ºC	
sensor				(10 bit ADC)			
Buttons	1 Reset button		Pulled-up to 3.3Vdc, ground when is push				
	1 Flash / User button (GPIO-0)		Pulled-up to 3.3Vdc, ground when is push				
Other	User RED LED (GPIO-13)		Up to 1024 analogic stepping				
	Serial Port Tx LED (GPIO-2)		PWM frequency range is between 100Hz and 1Khz, 14 bit				
	P1 Digital aux port (GPIO12)		resolution				
	ADC external port (if selected)		Completely float circuit, no buid-in pulls or filter.				