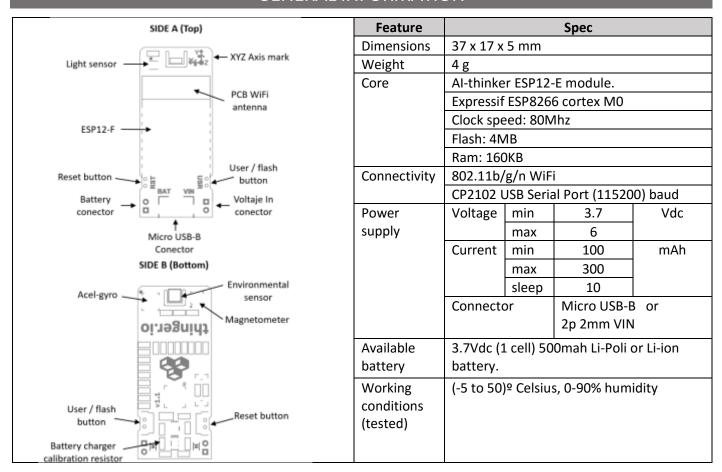
Thinger.io *ClimaStick* v1.0 Datasheet

This board is a complete Internet of Things development kit, that integrates WiFi 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
	HMC5883	Magnetometer	(-8,8) gauss	(0.73 , 4.35) milli-gauss	(230 ,1370) LSB/gauss	
	MPU6050	Accelerometer	<u>+</u> 16 g	2048 LSB/g	15 LSB/g	
		gyroscope	<u>+</u> 2000º/sec	16.4º/sec	0.005dps/√Hz	
Voltage	ADC	VIN / BAT voltage	(0,5)Vdc	0.01 Vdc	0.1 Vdc	
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	Full RGB programmable LED		Up to 1024 analogic stepping per color			
	Serial Port	Tx LED				