Thinger.io *WiFi Button*
Datasheet

1 – Description

This device is a ready to go Internet of Things based multifunctional button that integrates WiFi connectivity and simple integration with Thinger.io platform events, allowing to apply this product to many different cases of use such as alert buttons, wireless controlling. Optionally can include a high-accuracy temperature and humidity sensor to provide Indoor environmental measures.
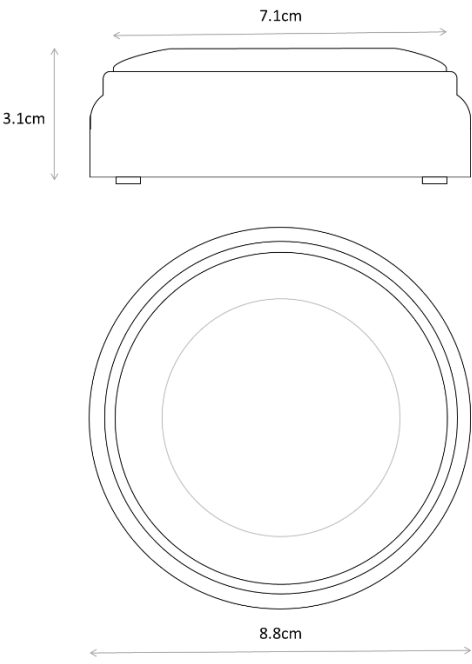
2 – Applications

- Interface human-internet
- Smart building
- Home automation
- Sensors

Project ID:SP	Multifunctional WiFi Button	© 2018
State: Checked	Date: 18/10/2018	Rev B
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3 - TECHNICAL INFORMATION

Feature ID	Specification			
Dimensions	88 x 88 x 31 mm			
Weight	44 g			
Core	ESP12-E			
	Expressif ESP8266 ARM32			
	Clock speed: 80Mhz			
	Flash: 4MB			
	Ram: 160KB			
Connectivity	802.11b/g/n WiFi			
	Serial Port (78800) baud			
Power supply	Voltage	min	2.5	Vdc
		max	3.6	
	Current	min	50	mAh
		max	200	
		sleep	0,0002	
	Connector	Micro USB-B or 2p 2mm VIN		
Available battery	2 x 1.5v AA alcaline battery *see battery powering section.			
Work tested conditions	(-10 to 60)º Celsius, 0-90% humidity *see working temperature section.			

Feature	Spec					
	Sensor	**Variable**	**Range**	**Resolution**	**Accuracy**	**Condition**
Optional Sensors (I2C)	SI7021	Temperature	(-40 , 85) ºC	0.01 ºC	(±0.5 , ±1) ºC	(-10 , 60) ºC
		Relative humidity	(0 , 100) %Rh	0.01 %Rh	(±1 , ±3) %Rh	(-10 , 60) ºC
Voltage sensor	ADC	VIN / BAT voltage	(0 , 5) Vdc	0.01 Vdc (10 bit ADC)	0.1 Vdc	(2.8 , 6) V
Buttons	1 On/Off switch (bottom)					
	1 User button					
Other	RED programmable LED		Up to 1024 analogic stepping			
	Serial Port Tx LED					