LIST OF DEVICES

(https://wiki.chipfc.com/index.php?title=Th%E1%BB%83_lo%E1%BA%A1 i:Chipi_Series)

Note:

These devices are compatible with 3.3V and 5V

They can be coded on Microbit by using Python or MakeCode

Referring to the Python Coding Environment at:

[DOC] https://microbit-micropython.readthedocs.io/en/v1.0.1/

[EDITOR] https://python.microbit.org/v/2.0

This Topic is Topic template. for you to use during the test. To avoid a lot of you posting data on the topic leading to errors while testing your system. You should create your own feeds and test on your own feeds

No.	Names of devices	Image	Description	Feed and Data
1	A 2-color single LED		OUTPUT https://wiki.chipfc.com/i ndex.php?title=Chipi - 2-Color LED	Topic: CSE_BBC/feeds/bk-iot-led {
2	Buzzer	VC CRIP CRIP CRIP CRIP CRIP CRIP CRIP CRIP	OUTPUT https://wiki.chipfc.com/i ndex.php?title=Chipi Buzzer	Topic: CSE_BBC/feeds/bk-iot-speaker { "id":"2", "name":"SPEAKER", "data":"X", "unit":"" } X in the range of 0 to 1023
3	LCD I2C	Page 12	OUTPUT It uses the I2C communication protocol and it is compatible with 3V3 and Microbit	Topic: CSE_BBC/feeds/bk-iot-lcd {

4	Single push button		INPUT https://wiki.chipfc.com/i	Topic: CSE_BBC/feeds/bk-iot-button
		o neutro	ndex.php?title=Chipi - Button	{ "id":"4", "name":"BUTTON", "data":"X", "unit":""
				X = 0: Press X = 1: Do not press
5	Touch button	Chip London	INPUT https://wiki.chipfc.com/i ndex.php?title=Chipi - Touch Key	Topic: CSE_BBC/feeds/bk-iot-touch { "id":"5", "name":"TOUCH", "data":"X", "unit":""
				 X = 0: Do not touch X = 1: Touch
6	Traffic light		OUTPUT Three single LEDs simulate traffic lights. It outputs 2-pin control signals corresponding to 4 different states of 3 lights (Off - 00, Green 01, Yellow 10, Red 11)	Topic: CSE_BBC/feeds/bk-iot- traffic {
7	DHT11	remedia A Transporter Control of	It can sense temperature. (INPUT) https://wiki.chipfc.com/index.php?title=ChipiHumidity %26 Temperature Sensor	Topic: CSE_BBC/feeds/bk-iot-temp-humid { "id":"7", "name":"TEMP- HUMID", "data":"X", "unit": "C-%" } X = temp-humid Example: X = 29-55

8	Magnetic switch		INPUT, It can detect	Topic: CSE_BBC/feeds/bk-iot-
ð	Magnetic switch		opening door.	magnetic
			https://wiki.chipfc.com/i	
			ndex.php?title=C%E1%	{ "id":"8",
		Công tắc	BA%A3m_bi%E1%BA	"name":"MAGNETIC",
		E C	%BFn_m%E1%BB%9F	"data":"X",
		(3)	_c%E1%BB%ADa_c%	"unit":""
		Nam	C3%B4ng_t%E1%BA	unit.
		lam châm	%AFc_t%E1%BB%AB	X = 0: Off
		3	70Ar C_1/0E1/0BB/0AB	X = 0. Of $X = 1$: On
9	Soil moisture		It can sense humidity.	Topic: CSE_BBC/feeds/bk-iot-
	Son moisture		(INPUT)	soil{
			https://wiki.chipfc.com/i	"id":"9",
			ndex.php?title=C%E1%	"name":"SOIL ",
			BA%A3m_bi%E1%BA	"data":"X",
		a a	%BFn_%C4%91%E1%	"unit":"%"
			BB%99_%E1%BA%A9	}
			m_%C4%91%E1%BA	X = from 0 to 1023
			$\frac{M-\sqrt{6}C+\sqrt{6}D+\sqrt{6}D+\sqrt{6}D+\sqrt{6}}{\%A5t}$	X < 100: Dry soil
			75725	X > 100: Wet soil
10	DRV power		OUTPUT, It can control	
	circuit		the Engine.	Topic: CSE_BBC/feeds/bk-iot-
			https://wiki.chipfc.com/i	drv
			ndex.php?title=Chipi	{
			Motor DRV	"id":"10",
				"name":"DRV_PWM",
		Chips MOTOR Control		"data":"X",
				"unit":""
				}
				X in the range of -255 to 255.
				X < 0: Spin counterclockwise
				X > 0: Spin clockwise
				Spin speed is absolute value of
				X.
	D.1		OT MEDITIES 2	
11	Relay circuit	1000	OUTPUT, It can control	CSE_BBC1/feeds/bk-iot-relay
		6	Switch.	{
		De mari C		"id":"11",
		を行うを		"name":"RELAY",
				"data":"X",
) * 8 × 6		"unit":""
		1990		Y O Desire off
				X = 0, Device off
				X = 1, Device On

12	Sound Sensor	TE THE TOTAL PROPERTY OF THE TOTAL PROPERTY	Sensor, INPUT It detects noise / measures noise https://wiki.chipfc.com/i ndex.php?title=Chipi Sound_Sensor	CSE_BBC1/feeds/bk-iot-sound {
13	Light Sensor	CO DESCRIPTION OF THE PROPERTY	Sensor, INPUT https://wiki.chipfc.com/i ndex.php?title=Chipi - Light Sensor1	CSE_BBC1/feeds/bk-iot-light {
14	Mini pump		This is an actuator and is usually attached to a motor circuit or a Relay	Device attached to Relay and have no data.
15	Mini motor + propeller		This is an actuator and is usually attached to a motor circuit or a Relay	Device attached to DRV and have no data.
16	Infrared sensor	S1 VCC G GNN G QUT1 QUT1 QUT1 QUT2 QUT2 QUT2 QUT2 QUT2 QUT2 QUT2 QUT2	Sensor, INPUT It can detect an obstacle effectively	CSE_BBC1/feeds/bk-iot-infrared { "id":"16", "name":"INFRARED", "data":"X", "unit":"" } X=OUT1OUT2 (example: 00,01,10,11) OUT1, OUT2 = 0: No obstacles at sensor1, sensor2. OUT1, OUT2 = 1: Obstacles at sensor1, sensor2.

17	RC servo 590		This is an actuator and is driven at a rotating angle.	CSE_BBC1/feeds/bk-iot-servo { "id":"17", "name":"SERVO", "data":"X", "unit":"degree" } X in the range of 0 to 180.
18	Expansion circuit		This circuit connects the peripherals	
19	Microbit		This is the central control circuit	
20	Adapter 5V		This device supplies power to the system	
21	AAA Battery Box		This device supplies power to the system	
22	Real- time clock	VCC STORY ST	This is a real- time clock that uses IC DS3107 and I2C communication protocol https://wiki.chipfc.com/index.php?title=Chipi-RTC	CSE_BBC1/feeds/bk-iot-time { "id":"22", "name":"TIME", "data":"X", "unit":"" } X: hh:mm:ss-dd:mm:yyyy hh:mm:ss: hour,minute,second dd:mm:yyyy: day-month-year
23	Gas sensor		Sensor, INPUT It measures the gas concentration	CSE_BBC1/feeds/bk-iot-gas {