

Elenco Zoccoli/Periferiche

I2C1			1	2	3	4
Descrizione	Codice	Note	GND	+3.3v	SCL P22	SDA P21/27
Display 128x64	SSD1306	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Display 128x32	SSD1306	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heart bit sensor	KY-039 HW-502	NO I2C – analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	non utilizzato
Magic light cup module	KY-027 HW-499	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

I2C2			1	2	3	4	5	6
Descrizione	Codice	Note	+3.3v	GND	SCL P22	SDA P21/27	SDO P16	CS P0
Giroscopio, accelerometro, ecc.	MPU-6050 GY-521	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Giroscopio, accelerometro, ecc.	GY-85	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Temp. Press. Altitude	BM280	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Tri-axis compass	GY273	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Laser sensor	VL53LO/IXV2	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
temp. Press. Humid.	BME280	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Light sensor	GY302 – BH1750	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Air quality, temp., humid.	BMP680 – BMP680		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
RTC clock	DS1302	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Heart ECG sensor	AD8232	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
SMD RGB 3 colours led	KY-009 HW-478	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RGB 3 colours led	KY-016 HW-479	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

I2C3			1	2	3	4
Descrizione	Codice	Note	+3.3v	GND	SDA P21/27	SCL P22
Radar 24 GHz	LC1115H	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Audio analyzer sensor	MAX 9814	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

I2C4			1	2	3	4	5	6	7
Descrizione	Codice	Note	GND	+3.3v	SDA P21/27	SCL P22	P16	P0	+5V
Joystick	KY-023 – HW504	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Rotary encoder	HW-040	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Encoder	HC-020K	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Radar 24 GHz	LD2410B	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Radar 24 GHz	LD2410C	NO I2C verificare alimentaz. conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Ultrasonic sensor	KY-050 HC-SR04	No IC2 alimentata a +5v	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Heart beat sensor	MAX30102	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Load weight cell	HX711	NO I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
433 MHz receiver		No IC2 alimentata a +5v	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Temp. Press. Altitude	BMP390	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Temp. Press. Altitude	BMP388	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Press, Hum., temp.	AHT20 + BMP280	I2C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Air quality sensor	SGP30	I2C conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
RTC clock	DS1307	I2C conness. Diretta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

RFID1	1	2	3	4	5	6	7	8
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Descrizione	Codice	Note	SDA P5	SCK P18	MOSI P23	MISO P19	IRQ P0	GND	RST P4	+3.3v
Rfid card reader	RC522		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	non usato	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SV1			1	2	3
Descrizione	Codice	Note	P26	+5V	GND
Servomotore	MG90S				

MT1			1	2
Descrizione	Codice	Note	+	GND
Motore		motore elettrico 12v max.		

TRM1			1	2	3
Descrizione	Codice	Note	GND	P34	+3.3v
Potenziometro	10 Kohm		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Nota: nel caso il potenziometro non venga saldato alla BDS, può accogliere gli stessi sensori di DA2. Non **vanno in conflitto** tra di loro.

GPS1			1	2	3	4
Descrizione	Codice	Note	+3.3v	RX P18/27	TX P17/35	GND
GPS	NEO6MB2		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Two led colours	KY-029 HW-477			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

GPS2			1	2	3	4	5
Descrizione	Codice	Note	+3.3v	GND	TX P17/35	RX P18/27	Pps P23
GPS	NEO7		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	non utilizzato
Sonar	RCWL-0516		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	non utilizzato	non utilizzato
SMD RGB 3 colours led	KY-009 HW-478		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RGB 3 colours led	KY-016 HW-479		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

AD1A			1	2	3	4
Descrizione	Codice	Note	P35	GND	Vcc	P34

Big Sound	KY-037 - HW485		digit.	---	+3,3v	analog.
Small Sound	KY-038 - HW496		digit.	---	+3,3v	analog.
Linear Hall	KY-024 - SS49E - HW509		digit.	---	+3,3v	analog.
Metal Touch	KY-036 - HW494		digit.	---	+3,3v	analog.
Magnetic Spring	KY-025 - HW484		digit.	---	+3,3v	analog.
Flame	KY-026 - HW491		digit.	---	+3,3v	analog.
Digital Temperature	KY-028 - HW503		digit.	---	+3,3v	analog.
Water sensor	Sen18 HW-038		non utilizzato	---	+3,3v	analog.
Heart bit sensor	KY-018 HW-502		non utilizzato	---	+3,3v	analog.

Nota: AD1A è alternativo a AD1B. Non possono essere usati contemporaneamente.

AD1B			1	2	3	4
Descrizione	Codice	Note	Vcc	GND	P35	P34
Gas sensor	MQ2 - KY030	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ3	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ4	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ5	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ6	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ7	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ8	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ9	alimentato a + 5v	+5v	---	digit.	analog.
Gas sensor	MQ135	alimentato a + 5v	+5v	---	digit.	analog.
Encoder	HC020-K		+3,3v	---		
Soil moisture sensor	HW-050			---		
Two colours led	KY-011 HW-480		+3,3v	---	digit.	

Nota1: AD1B è alternativo a AD1A. Non possono essere usati contemporaneamente.

Nota 2: per i sensori di gas, P34 è una porta ANALOGICA

Nota 3: le porte P34 e P35 sono solo di input, quindi non possono essere usati display, relè, ecc.

Nota 4: i sensori di gas richiedono l'alimentazione a +5v, che può danneggiare ESP32x!

BZ1			1	2	3
Descrizione	Codice	Note	GND	+3.3v	P26

Passive buzzer module	KY-006 HW-508	nativo x questa porta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Active buzzer module	KY-012 HW-512	nativo x questa porta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tap Module	KY-031 – HW500		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shock sensor	KY-002 – HW513		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tilt switch	KY-020 – HW501		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR emission led	KY-005 - HW489		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Relay	KY-019 - HW482		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	KY-015 – DHT11 – HW507		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Button	KY-004 - HW-483		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laser emit led	KY-008 - HW493		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
433 MHz transmitter (TX)		portata ridotta a 3,3v	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	KY-033 - HW511		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Photo interrupt	KY-010 – HW487		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR Receiver	KY-022 - HW490		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mercury tilt module	KY-017 - HW505		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-035 – HW492 – HW495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Reed switch sensor	KY-021 – HW497		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Avoiance	KY-032 - HW201		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Temperature	KY-001 – 18B20 - HW506	Da verificare	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-003 HW-495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Analogue temperature module	KY-013 HW-498	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	DHT22		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LDR – photoresistor – analogue output	KY-018 – HW486	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Nota : stessa disposizione dei pin di DA2, DA3, DA4

DA1			1	2	3
Descrizione	Codice	Note	Vcc	P17	GND
PIR – presence	HC-SR501 – KY-007	instabile a +3,3v	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PIR – presence	HC_SR505	da verificare	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laser detector		richiede diodo laser KY-008	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sonar sensor	RCLW-0516		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Touch sensor	TTP223		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RGB led matrix 8x8	WS2812		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laser receiver module			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Seven colours led	KY-034 HW-481			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Potentiometer	10 Kohm		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

DA2			1	2	3
Descrizione	Codice	Note	GND	+3.3v	P35
Tap Module	KY-031 – HW500		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shock sensor	KY-002 – HW513		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tilt switch	KY-020 – HW501		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR emission led	KY-005 - HW489		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	KY-015 – DHT11 – HW507		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Button	KY-004 - HW-483		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laser emit led	KY-008 - HW493		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
433 MHz transmitter (TX)		portata ridotta a 3,3v	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	KY-033 - HW511		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Photo interrupt	KY-010 – HW487		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mercury tilt module	KY-017 - HW505		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-035 – HW492 – HW495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Reed switch sensor	KY-021 – HW497		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Avoiance	KY-032 - HW201		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Temperature	KY-001 – 18B20 - HW506	Da verificare	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-003 HW-495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Analogue temperature module	KY-013 HW-498	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	DHT22		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LDR – photoresistor – analogue output	KY-018 – HW486	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heart bit sensor	MRS025A	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Nota 1: stessa disposizione dei pin di BZ1, DA3, DA4

Nota 2: solo input (sensori)

DA3			1	2	3
Descrizione	Codice	Note	GND	Vcc	P27
Tap Module	KY-031 – HW500		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shock sensor	KY-002 – HW513		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tilt switch	KY-020 – HW501		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR emission led	KY-005 - HW489		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Relay	KY-019 - HW482		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	KY-015 – DHT11 – HW507		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Button	KY-004 - HW-483		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laser emit led	KY-008 - HW493		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
433 MHz transmitter (TX)		portata ridotta a 3,3v	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	KY-033 - HW511		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Photo interrupt	KY-010 – HW487		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR Receiver	KY-022 - HW490		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mercury tilt module	KY-017 - HW505		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-035 – HW492 – HW495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Reed switch sensor	KY-021 – HW497		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Avoiance	KY-032 - HW201		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Temperature	KY-001 – 18B20 - HW506	Da verificare	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-003 HW-495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Analogue temperature module	KY-013 HW-498	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	DHT22		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LDR – photoresistor – analogue output	KY-018 – HW486	porta analogica	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Passive buzzer module	KY-006 HW-508		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Active buzzer module	KY-012 HW-512		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Nota 1: stessa disposizione dei pin di BZ1, DA2, DA4

Nota 2: alimentazione a +3.3v o +5v

DA4			1	2	3
Descrizione	Codice	Note	GND	Vcc	P18
Tap Module	KY-031 – HW500		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shock sensor	KY-002 – HW513		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tilt switch	KY-020 – HW501		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR emission led	KY-005 - HW489		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Relay	KY-019 - HW482		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature Humidity	KY-015 – DHT11 – HW507		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Button	KY-004 - HW-483		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laser emit led	KY-008 - HW493		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
433 MHz transmitter (TX)		portata ridotta a 3,3v	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	KY-033 - HW511		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Photo interrupt	KY-010 – HW487		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IR Receiver	KY-022 - HW490		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mercury tilt module	KY-017 - HW505		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hall magnetic sensor	KY-035 – HW492 – HW495		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Reed switch sensor	KY-021 – HW497		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Avoiance	KY-032 - HW201		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Temperature	KY-001 – 18B20 - HW506	Da verificare	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Modulo con 8 pulsanti										

Nota: le connessioni saranno effettuate sullo zoccolo "DATA".

