AIOsense

BOM for v2.0.x only
Please take a look at our docs for complete BOM explanation

Group	QTY	Kind	Description	Note	Manufacturer	SKU
	1	THT	motion sensor / PIR	-	Panasonic	EKMC1603111
	1	THT	TO-5 3pos socket	-	Mill-Max	917-43-103-41-005000
C	1	PCB	ESP8266-D1 mini	-	Wemos	Lolin D1 mini
C	1	PCB	ESP32-D1 mini	-	(many)	-
C	1	PCB	ESP32-S2 mini	-	Wemos	Lolin S2 mini
C	1	PCB	ESP32-C3 mini	-	Wemos	Lolin C3 mini
E	1	SMD	3-in-1 humidity sensor	-	Bosch	BME280
E	1	SMD	4-in-1 gas sensor	-	Bosch	BME680
E	1	PCB	3-in-1 humidity sensor	-	(many)	BME280
E	1	PCB	4-in-1 gas sensor	-	(many)	BME680
M	1	PCB	mmWave radar sensor	-	DFROBOT	SEN0395
M	1	PCB	mmWave radar sensor	-	Hi-Link	HLK-LD2410
	1	PCB	BH1750 light sensor	-	(many)	GY-302
	1	THT	terminal block 2pos, 2.54mm pin spacing, 8.5mm case height	-	Würth Elektronik	691210910002
	2	THT	4.7 kohm resistors, axial, 250V, ± 5%	only if group E is SMD	YAGEO	CFR-25JR-52-4K7
	1	SMD	multilayer ceramic capacitor, 0.1 µF, 50 V, ± 10%, 1206, X7R	only if group E is SMD	YAGEO	CC1206KRX7R9BB104
	4	THT	1x6-way vertical socket (female), 2.54mm, 8.5mm height	-	MULTICOMP PRO	2212S-06SG-85
	2	THT	1x8-way vertical socket (female), 2.54mm, 8.5mm height	normaly part of the CPU order	MULTICOMP PRO	2212S-08SG-85
	1	THT	2x5-way vertical header (male), 2.54mm	-	MULTICOMP PRO	2213S-10G
	1	PCB	microphone	not supported yet	(many)	INMP441
	1	THT	1x5-way vertical socket (female), 1.27mm, 4.6mm height	for HLK-LD2410 only	Harwin	M52-5000545

THT stands for "Through-Hole Technology". Electronic components with leads inserted in holes, soldered on opposite side. Soldering is done via A soldering iron. TLDR; easy to solder.

SMD stands for „Surface Mount Device". Electronic components mounted directly onto circuit board surface using solder paste and reflow Soldering. Soldering is done using a hot air or reflow soldering machine. TLDR; difficult to solder.

PCB stands for „**P**rinted **C**ircuit **B**oard". In this case **THT** based circuit boards. Sometimes called „pcb modules". *TLDR; easy to solder.*

The green color indicates the parts you need for a fully equipped PCB if you want plug and play (quickstart recommendation).