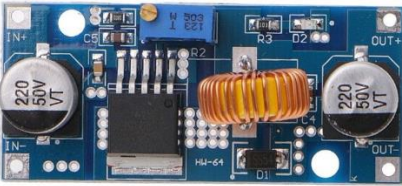
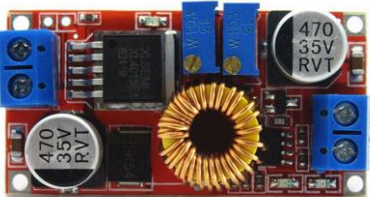
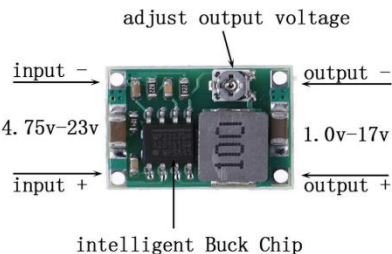
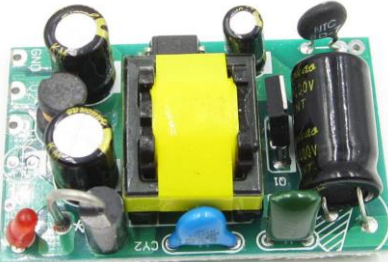



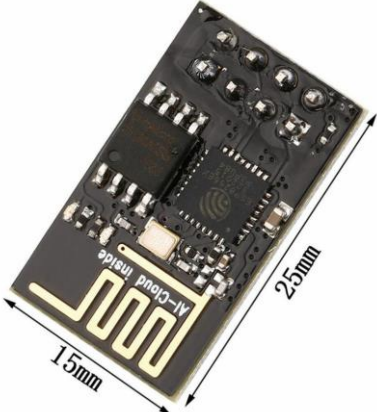








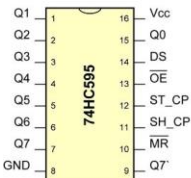
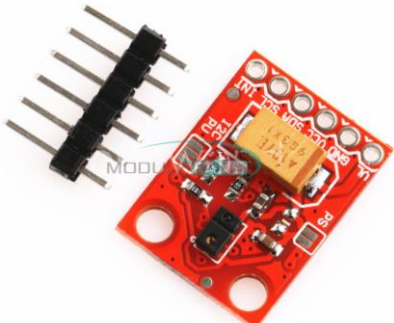
Image	Type	Name	Selled at	Specs / Reviews
	Current regulator	Voltage Regulator XL4015 Step Down Switching DC-DC Converter 36V/5A Arduino	<a href="https://www.ebay.com/itm/Voltage-Regulator-XL4015-Step-Down-Switching-DC-DC-Converter-36V-5A-Arduino/132837996745?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/Voltage-Regulator-XL4015-Step-Down-Switching-DC-DC-Converter-36V-5A-Arduino/132837996745?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	<p>Specifications:</p> <p>Chip: XL4015</p> <p>Input voltage range: 4-38V DC (Note: input voltage not exceeding 38V)</p> <p>Output voltage range: 1.25-36V DC (adjustable)</p> <p>Output current: 0-5A, recommended for use in 4.5A.</p> <p>Output power: 75W</p> <p>Working temperature: -40~+85°C</p> <p>Operating frequency: 180KHz</p> <p>Efficiency: 96% (max)</p> <p>Short circuit protection: yes(limit current 8A).</p> <p>Over temperature protection</p> <p>Input reverse polarity protection: None (if required, high current diode in series with the input).</p> <p>Size: 54x24mm/2.13x0.94"</p> <p><a href="https://www.youtube.com/watch?v=8cRmGNmqRYc">https://www.youtube.com/watch?v=8cRmGNmqRYc</a></p>
<p><b>size:51.2*26.2mm</b></p> 	Current regulator	5A DC- DC Constant Current Voltage Regulator Step Down Converter 5V 12V 24V	<a href="https://www.ebay.com/itm/5A-DC-DC-Constant-Current-Voltage-Regulator-Step-Down-Converter-5V-12V-24V/192555939561?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/5A-DC-DC-Constant-Current-Voltage-Regulator-Step-Down-Converter-5V-12V-24V/192555939561?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	<p>Input Voltage Range: 5~32VDC</p> <p>Input reverse polarity protection: None</p> <p>Output Voltage Range: 0.8-30VDC adjustable</p> <p>Output Current: 0-5A adjustable</p> <p>High Efficiency: up to 95%</p>
<p>Mini DC Step Down Regulator</p>  <p>adjust output voltage</p> <p>input -</p> <p>output -</p> <p>4.75v-23v</p> <p>1.0v-17v</p> <p>input +</p> <p>output +</p> <p>intelligent Buck Chip</p>	Current regulator	3A Mini DC-DC step down converter volt regulator 5V-23V to 3.3V 6V 9V 12V M.US	<a href="https://www.ebay.com/itm/3A-Mini-DC-DC-step-down-converter-volt-regulator-5V-23V-to-3-3V-6V-9V-12V-M-US/362959165220?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/3A-Mini-DC-DC-step-down-converter-volt-regulator-5V-23V-to-3-3V-6V-9V-12V-M-US/362959165220?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	<p>Module nature: non-isolated buck</p> <p>Rectification mode: synchronous rectification</p> <p>Input voltage: 4.75V-23V</p> <p>Output voltage: 1.0V-17V</p> <p>Output current: peak 3A, long time 1.8A</p> <p>Conversion efficiency: 96% (highest)</p> <p>Switching frequency: 340KHz</p> <p>Output ripple: 30mV (when no load)</p> <p>Load adjustment rate: +-0.5%</p> <p>Voltage regulation rate: +-2.5%</p> <p>Working temperature: -40°C+85°C</p>

	Current regulator	1.2A DC-DC Buck Step-down Converter Volt Regulator 4.5V-24V to 3V 3.3V 5V 9V 12V	<a href="https://www.ebay.com/itm/113706883072">https://www.ebay.com/itm/113706883072</a>	Chip: MPS MP2359 Input voltage: 4.5V-24V Output voltage: 3V-15V (default 5V) Buck efficiency: up to 92% Output current: 1.2A max Low standby current: <0.1uA Overcurrent protection, over temperature protection Procurement of advanced high current inductors, small Schottky fast diodes. DS = low is on standby; empty / VIN is enabled; connectable switch control. VIN: input Positive; GND common ground, VO: output positive, DS cannot connect. Size: 13*11*3.8mm
	Power Supply	AC-DC Power Supply Module Buck Converter Step Down Module Replace/Repair ATF	<a href="https://www.ebay.com/itm/AC-DC-Power-Supply-Module-Buck-Converter-Step-Down-Module-Replace-Repair-ATF/192628636860?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=492768621735&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/AC-DC-Power-Supply-Module-Buck-Converter-Step-Down-Module-Replace-Repair-ATF/192628636860?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=492768621735&amp;trksid=p2057872.m2749.l2649</a>	5V / 0.7A
	Power Supply	AC-DC 5V 700mA 3.5W Power Supply Buck Converter Step Down Module for Arduino	<a href="https://www.ebay.com/itm/1pc-AC-DC-5V-700mA-3-5W-Power-Supply-Buck-Converter-Step-Down-Module-for-Arduino/183413473551?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/1pc-AC-DC-5V-700mA-3-5W-Power-Supply-Buck-Converter-Step-Down-Module-for-Arduino/183413473551?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	5V / 0.7A
	Power Supply	AC-DC Power Supply Module Buck Converter Step Down Module Replace/Repair ATF	<a href="https://www.ebay.com/itm/AC-DC-Power-Supply-Module-Buck-Converter-Step-Down-Module-Replace-Repair-ATF/192628636860?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=492768621736&amp;trksid=p2057872.m2749.l2648">https://www.ebay.com/itm/AC-DC-Power-Supply-Module-Buck-Converter-Step-Down-Module-Replace-Repair-ATF/192628636860?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=492768621736&amp;trksid=p2057872.m2749.l2648</a>	5V / 2.5A

	Power Supply	AC-DC 12V 5V 24V 9V Power Supply Buck Converter Step Down Module for Arduino	<a href="https://www.ebay.com/itm/AC-DC-12V-5V-24V-9V-Power-Supply-Buck-Converter-Step-Down-Module-for-Arduino/253176674644?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=552271234263&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/AC-DC-12V-5V-24V-9V-Power-Supply-Buck-Converter-Step-Down-Module-for-Arduino/253176674644?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=552271234263&amp;trksid=p2057872.m2749.l2649</a>	5V / 1.5A
	Power Supply	AC-DC 12V 1.5A 5V 2A Switching Power Supply Module Bare Circuit 100-265V to 12V 5V Board TL431 regulator for Replace/Repair	<a href="https://www.aliexpress.com/item/4000992241059.html?spm=a2g0s.9042311.0.0.46594c4d2A3fRM">https://www.aliexpress.com/item/4000992241059.html?spm=a2g0s.9042311.0.0.46594c4d2A3fRM</a>	12V / 1.5A
	Micro controller	D1 Mini NodeMcu 4M bytes Lua WIFI Development Board ESP8266 by WeMos TEUS	<a href="https://www.ebay.com/itm/D1-Mini-NodeMcu-4M-bytes-Lua-WIFI-Development-Board-ESP8266-by-WeMos-TEUS/312715205793?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/D1-Mini-NodeMcu-4M-bytes-Lua-WIFI-Development-Board-ESP8266-by-WeMos-TEUS/312715205793?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	
	Micro controller	NodeMcu Lua WIFI Internet Things development board based ESP8266 CP2102 module	<a href="https://www.ebay.com/itm/NodeMcu-Lua-WIFI-Internet-Things-development-board-based-ESP8266-CP2102-module/311721893268?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/NodeMcu-Lua-WIFI-Internet-Things-development-board-based-ESP8266-CP2102-module/311721893268?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	

 <p>A black PCB module with a gold-colored antenna. Dimensions are marked as 15mm wide and 25mm long. Text on the board includes 'Mi-Cloud Inside'.</p>	Micro controller	ESP8266 Serial WIFI Wireless Transceiver Module Send Receive AP+STA ESP-01 US	<a href="https://www.ebay.com/itm/ESP8266-Serial-WIFI-Wireless-Transceiver-Module-Send-Receive-AP-STA-ESP-01-US/152149532770?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/ESP8266-Serial-WIFI-Wireless-Transceiver-Module-Send-Receive-AP-STA-ESP-01-US/152149532770?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	
 <p>A purple PCB module with a silver electret microphone. Labels include 'VCC: 2-5.5V', 'Adjustable gain', and 'OUT GND VCC'. A 3-pin header is visible.</p>	Sensor - Microphone	GY-MAX4466 electret microphone amplifier MAX4466 adjustable amplifier module	<a href="https://www.ebay.com/itm/1pc-GY-MAX4466-electret-microphone-amplifier-MAX4466-adjustable-amplifier-module/183696382813?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/1pc-GY-MAX4466-electret-microphone-amplifier-MAX4466-adjustable-amplifier-module/183696382813?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	
 <p>Three black square fans of different sizes (40mm, 60mm, and 80mm) with red and black cables. The 40mm fan is labeled '40mm'.</p>	Cooling Fan	4cm Mini DC Brushless Chassis Graphics Card CPU Cooling Fan 40mmx40mmx10mm	<a href="https://www.ebay.com/itm/2Pcs-4cm-Mini-DC-Brushless-Chassis-Graphics-Card-CPU-Cooling-Fan-40mmx40mmx10mm/193290749390?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/2Pcs-4cm-Mini-DC-Brushless-Chassis-Graphics-Card-CPU-Cooling-Fan-40mmx40mmx10mm/193290749390?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	Voltage: 12dvc Bearing Type: Sleeve Connector: 2pin(2.0) Applicable for: CPU Fan, SB/NB Fan Dimension: Approx.40*40*10mm/1.57"*1.57"*0.39"
 <p>A blue PCB module with a silver crystal oscillator. Labels include 'DS3231', 'ZS042', 'AT24C32', 'IIC', 'RTC', 'Real time Clock', and 'Memory'.</p>	RTC	DS3231 ZS042 AT24C32 IIC Module Precision RTC Real time Clock Memory	<a href="https://www.ebay.com/itm/Arduino-DS3231-ZS042-AT24C32-IIC-Module-Precision-RTC-Real-time-Clock-Memory/382715203141?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/Arduino-DS3231-ZS042-AT24C32-IIC-Module-Precision-RTC-Real-time-Clock-Memory/382715203141?ssPageName=STRK%3AMEBIDX%3AIT&amp;trksid=p2057872.m2749.l2649</a>	



	Sensor - Motion	HC-SR501 Infrared PIR Motion Sensor Module for Arduino Raspberry pi	<a href="https://www.ebay.com/itm/HC-SR501-Infrared-PIR-Motion-Sensor-Module-for-Arduino-Raspberry-pi/401598066562?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=671340309473&amp;trksid=p2057872.m2749.l2649">https://www.ebay.com/itm/HC-SR501-Infrared-PIR-Motion-Sensor-Module-for-Arduino-Raspberry-pi/401598066562?ssPageName=STRK%3AMEBIDX%3AIT&amp;var=671340309473&amp;trksid=p2057872.m2749.l2649</a>																																																				
	Sound amplifier	TDA2030A Audio Amplifier Module Power Amplifier Board AMP 6 ~12V 1*18W	<a href="https://www.ebay.com/itm/TDA2030A-Audio-Amplifier-Module-Power-Amplifier-Board-AMP-6-12V-1-18W/322634016547?hash=item4b1e7c6723:g:CqcAAOSwi1BZeyan">https://www.ebay.com/itm/TDA2030A-Audio-Amplifier-Module-Power-Amplifier-Board-AMP-6-12V-1-18W/322634016547?hash=item4b1e7c6723:g:CqcAAOSwi1BZeyan</a>																																																				
	Digital multiplexer	74HC595 shift register	<a href="https://www.instructables.com/id/Add-More-Digital-Inputs-and-Outputs-to-Your-Arduino/">https://www.instructables.com/id/Add-More-Digital-Inputs-and-Outputs-to-Your-Arduino/</a>  <a href="https://www.alldatasheet.com/datasheet-pdf/pdf/12198/ONSEMI/74HC595.html">https://www.alldatasheet.com/datasheet-pdf/pdf/12198/ONSEMI/74HC595.html</a>  <a href="https://www.arduino.cc/en/tutorial/ShiftOutput">https://www.arduino.cc/en/tutorial/ShiftOutput</a>	<div><table><caption>74HC595 8-Bit Shift Register Pinouts</caption><thead><tr><th>Pin</th><th>Symbol</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td>Q1</td><td>Parallel data output (bit-1)</td></tr><tr><td>2</td><td>Q2</td><td>Parallel data output (bit-2)</td></tr><tr><td>3</td><td>Q3</td><td>Parallel data output (bit-3)</td></tr><tr><td>4</td><td>Q4</td><td>Parallel data output (bit-4)</td></tr><tr><td>5</td><td>Q5</td><td>Parallel data output (bit-5)</td></tr><tr><td>6</td><td>Q6</td><td>Parallel data output (bit-6)</td></tr><tr><td>7</td><td>Q7</td><td>Parallel data output (bit-7)</td></tr><tr><td>8</td><td>GND</td><td>Ground (0 V)</td></tr><tr><td>9</td><td>Q7'</td><td>Serial Data Output</td></tr><tr><td>10</td><td>MR</td><td>Master Reset (Active Low)</td></tr><tr><td>11</td><td>SH_CP</td><td>Shift Register Clock Input</td></tr><tr><td>12</td><td>ST_CP</td><td>Storage Register Clock Input</td></tr><tr><td>13</td><td>OE</td><td>Output Enable (Active Low)</td></tr><tr><td>14</td><td>DS</td><td>Serial Data Input</td></tr><tr><td>15</td><td>Q0</td><td>Parallel data output (bit-8)</td></tr><tr><td>16</td><td>Vcc</td><td>Positive Supply Voltage</td></tr></tbody></table></div>	Pin	Symbol	Description	1	Q1	Parallel data output (bit-1)	2	Q2	Parallel data output (bit-2)	3	Q3	Parallel data output (bit-3)	4	Q4	Parallel data output (bit-4)	5	Q5	Parallel data output (bit-5)	6	Q6	Parallel data output (bit-6)	7	Q7	Parallel data output (bit-7)	8	GND	Ground (0 V)	9	Q7'	Serial Data Output	10	MR	Master Reset (Active Low)	11	SH_CP	Shift Register Clock Input	12	ST_CP	Storage Register Clock Input	13	OE	Output Enable (Active Low)	14	DS	Serial Data Input	15	Q0	Parallel data output (bit-8)	16	Vcc	Positive Supply Voltage
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	Proximity & Attitude Sensor	APDS-9930 Proximity & Attitude Sensor GY-9930-LLC I2C ALS RGB For Arduino	<a href="https://www.ebay.ca/itm/172997132960">https://www.ebay.ca/itm/172997132960</a>	ALS, IR LED and Proximity Detector in an Optical Module Ambient Light Sensing (ALS) Approximates Human Eye Response Programmable Interrupt Function with Upper and Lower Threshold Up to 16-Bit Resolution High Sensitivity Operates Behind Darkened Glass Low Lux Performance at 0.01 lux Proximity Detection Fully Calibrated to 100 mm Detection Integrated IR LED and Synchronous LED Driver Eliminates ?Factory Calibration? of Prox Programmable Wait Timer Wait State Power ? 90 ?A Typical																																																			



