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Whadda WSG105

Whadda WSG105 Junior Theremin Soldering Kit Instruction Manual

Model: WSG105

1. INTRODUCTION

The Whadda WSG105 Junior Theremin is an electronic soldering kit designed for educational purposes and hobbyists. Upon successful assembly, this kit creates a functional Junior Theremin, an electronic musical instrument that produces sound based on the proximity of a hand to its antenna. It allows users to explore basic electronics, soldering techniques, and the principles of early electronic music synthesis. This manual provides detailed instructions for assembling, operating, and maintaining your Junior Theremin kit. Please read all instructions carefully before beginning assembly.

2. SAFETY INFORMATION

Warning: This kit involves soldering, which uses high temperatures and produces fumes. Always follow these safety guidelines:

- Work in a well-ventilated area to avoid inhaling solder fumes.
- Wear appropriate eye protection (safety glasses) to protect against splashes or flying debris.
- Use a soldering iron stand to prevent accidental burns.
- Avoid touching the hot tip of the soldering iron.
- Keep flammable materials away from your work area.
- Wash hands thoroughly after handling solder, especially lead-based solder.
- Ensure the power supply (9V battery) is connected correctly to prevent damage to the circuit or battery.

3. PACKAGE CONTENTS

Before starting assembly, verify that all components listed below are present in your kit.

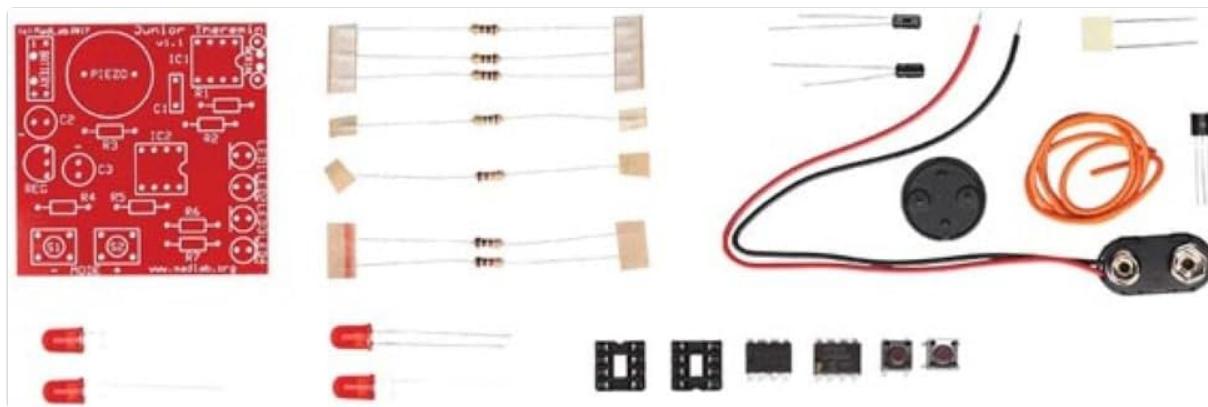


Figure 1: All components included in the Whadda WSG105 Junior Theremin Soldering Kit, laid out for inspection. This includes the printed circuit board (PCB), various resistors, capacitors, integrated circuits (ICs), a speaker, battery clip, push buttons, LEDs, and the antenna wire.

- Printed Circuit Board (PCB)
- Integrated Circuits (ICs) and Sockets
- Resistors (various values)
- Capacitors
- LEDs (Light Emitting Diodes)
- Push Buttons
- Piezo Speaker
- Battery Clip (for 9V battery)
- Antenna Wire
- Voltage Regulator (REG)

Note: A 9V battery is required for operation and is not included in the kit.

4. ASSEMBLY INSTRUCTIONS (SETUP)

Follow these steps carefully to assemble your Junior Theremin. It is recommended to solder components from lowest height to highest height.

4.1 Tools Required

- Soldering Iron
- Solder (rosin core recommended)
- Wire Cutters/Nippers
- Small Pliers
- Safety Glasses
- Desoldering Braid or Pump (optional, for corrections)

4.2 Soldering Process

- 1. Identify Components:** Before soldering, identify all components. Resistors have color bands indicating their value. Capacitors and LEDs are polarized; ensure correct orientation.
- 2. Solder Resistors:** Start by inserting the resistors into their designated spots on the PCB (R1-R7). Bend the leads slightly on the underside to hold them in place. Solder each lead, ensuring a shiny, cone-shaped joint. Trim excess leads with wire cutters.
- 3. Solder IC Sockets:** Place the IC sockets (for IC1 and IC2) onto the PCB. Ensure the notch on the

socket aligns with the notch indicated on the PCB silkscreen. Solder all pins.

4. **Solder Capacitors:** Insert the capacitors (C1-C3). Pay attention to polarity for electrolytic capacitors (if present, usually marked with a stripe for the negative lead). Solder and trim leads.
5. **Solder LEDs:** Insert the LEDs (LED1-LED4). LEDs are polarized; the longer lead is typically the anode (+) and the shorter lead is the cathode (-). The PCB usually indicates polarity. Solder and trim leads.
6. **Solder Push Buttons:** Place the push buttons into their positions. Solder all pins.
7. **Solder Voltage Regulator (REG):** Insert the voltage regulator. Ensure correct orientation as indicated on the PCB. Solder its pins.
8. **Solder Piezo Speaker:** Connect the piezo speaker to its designated pads. Polarity might be indicated, but for a simple piezo speaker, it's often less critical than other components.
9. **Solder Battery Clip:** Attach the red wire of the 9V battery clip to the '+' pad and the black wire to the '-' pad on the PCB. Ensure correct polarity.
10. **Solder Antenna Wire:** Connect the antenna wire to the designated "ANT" pad on the PCB. This wire will act as the sensing element for the Theremin.
11. **Insert ICs:** Carefully insert the Integrated Circuits (ICs) into their respective sockets (IC1, IC2). Ensure the notch on the IC aligns with the notch on the socket and the PCB. Bend the pins slightly inward if necessary to fit into the socket. Apply gentle, even pressure to seat them fully.
12. **Visual Inspection:** After all components are soldered, carefully inspect the PCB for any cold solder joints (dull, lumpy appearance), solder bridges (solder connecting two adjacent pads), or incorrectly oriented components. Correct any issues before proceeding.

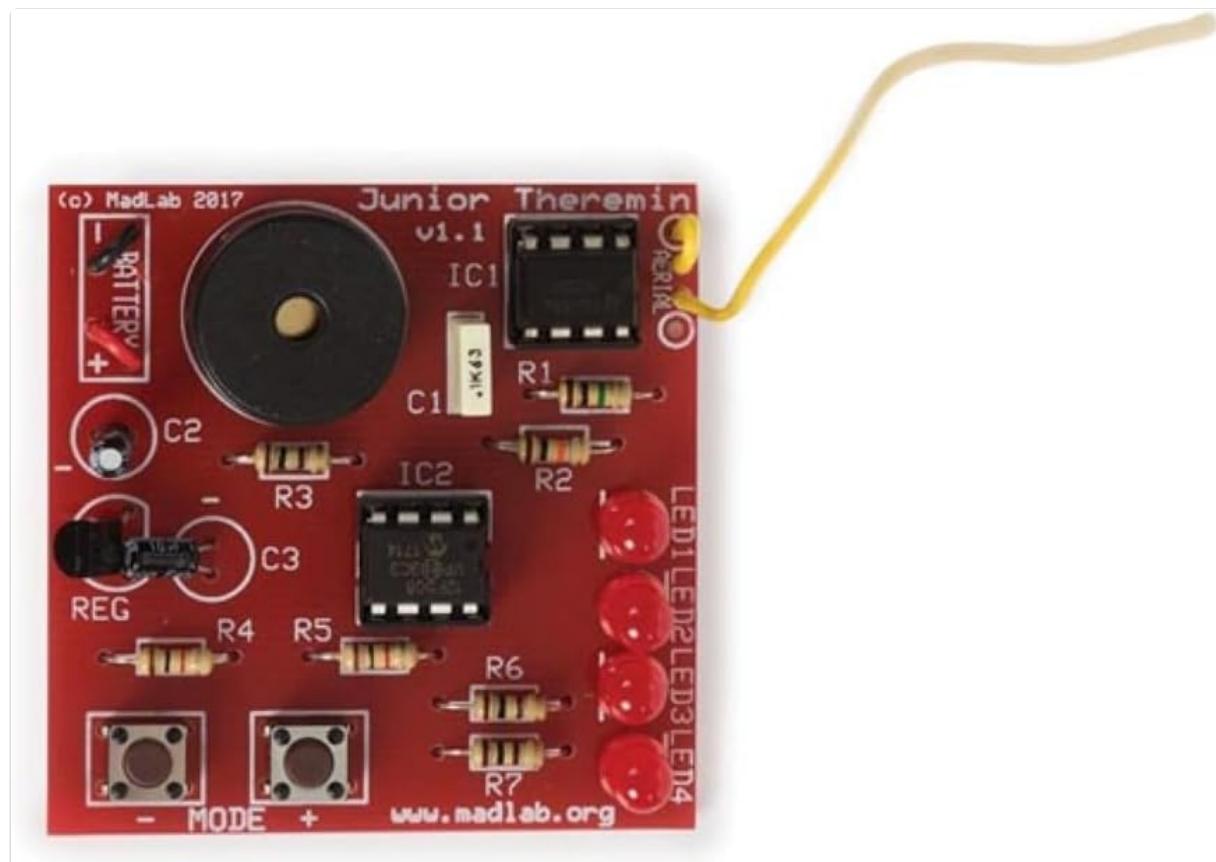


Figure 2: A fully assembled Whadda WSG105 Junior Theremin circuit board, showing all components soldered in place, including the speaker, ICs, LEDs, buttons, and antenna wire.



Figure 3: An example of a person engaged in the soldering process, demonstrating the use of a soldering iron and proper technique for attaching components to a circuit board.

5. OPERATING INSTRUCTIONS

Once assembled, your Junior Theremin is ready for use.

- 1. Connect Power:** Attach a fresh 9V battery to the battery clip. The Theremin should power on.
- 2. Initial Sound:** The Theremin may produce a continuous tone upon power-up.
- 3. Adjust Pitch:** Slowly move your hand towards and away from the antenna wire. Observe how the pitch of the sound changes. Moving your hand closer typically increases the pitch, while moving it away decreases it.
- 4. Mode Buttons:** Use the '+' and '-' buttons on the PCB to adjust settings or modes, such as octave range or sensitivity, if implemented in the circuit design. Refer to the specific circuit diagram for detailed button functionality.
- 5. LED Indicators:** The LEDs (LED1-LED4) may indicate the current pitch or mode, providing visual feedback during operation.

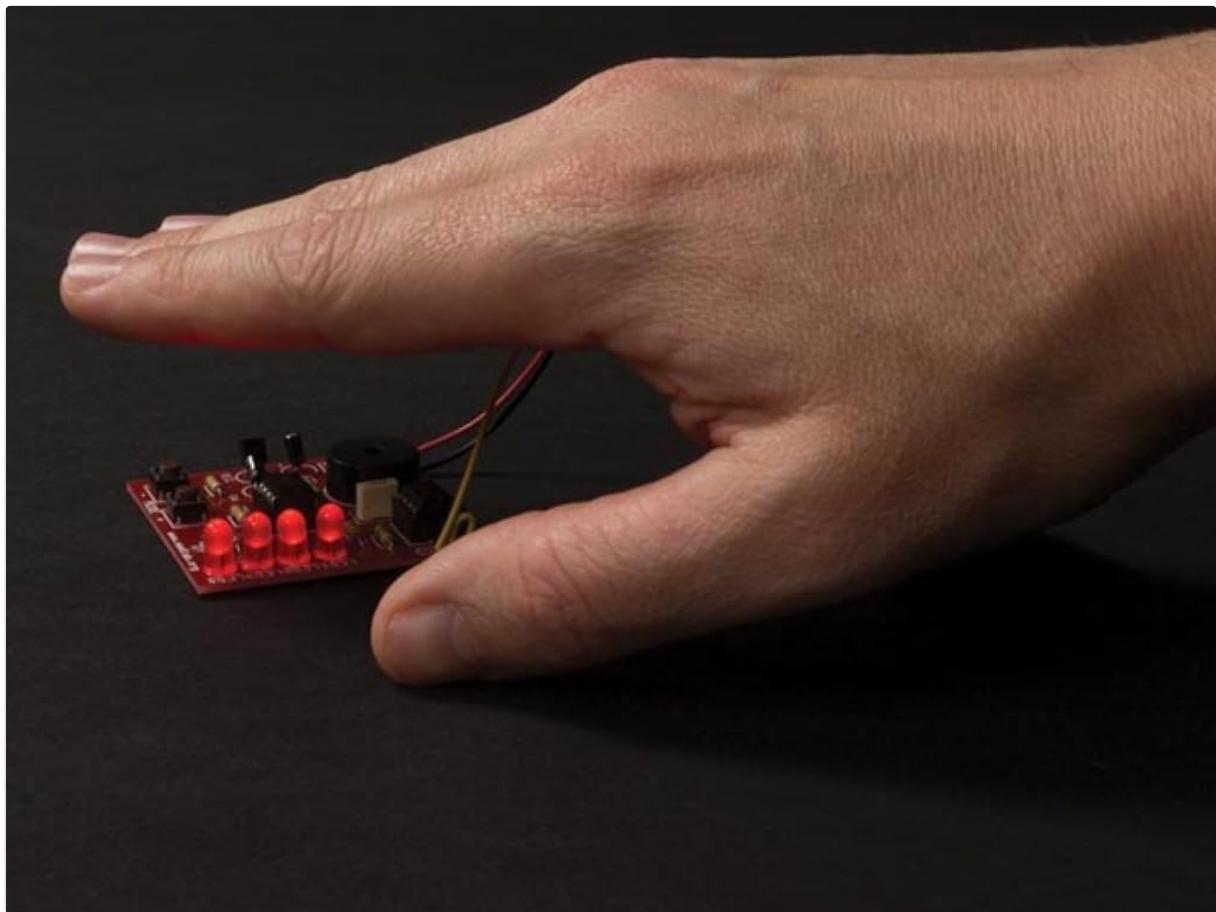


Figure 4: A hand positioned above the assembled Junior Theremin, demonstrating the interaction with the antenna to control the pitch of the sound.

6. MAINTENANCE

- **Cleaning:** Keep the circuit board clean and free of dust. Use a soft, dry brush or compressed air to remove debris. Avoid using liquids.
- **Battery Replacement:** Replace the 9V battery when the sound becomes weak or inconsistent. Always disconnect the battery when the device is not in use for extended periods to prevent discharge.
- **Storage:** Store the Theremin in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Solder Joint Inspection:** Periodically inspect solder joints for any signs of cracking or corrosion, especially if the device is handled frequently. Re-solder any compromised joints if necessary.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound or very faint sound.	<ul style="list-style-type: none">◦ Dead or low 9V battery.◦ Incorrect battery connection.◦ Speaker not connected or faulty.◦ Cold solder joint on power or speaker connections.	<ul style="list-style-type: none">◦ Replace with a fresh 9V battery.◦ Check battery clip polarity (+ to +, - to -).◦ Verify speaker connections and test speaker if possible.◦ Inspect and re-solder any suspicious joints.

Problem	Possible Cause	Solution
Sound is constant and does not change with hand movement.	<ul style="list-style-type: none"> Antenna wire not connected or broken. Faulty IC or component related to the sensing circuit. Solder bridge on the PCB. 	<ul style="list-style-type: none"> Ensure antenna wire is securely soldered. Check ICs are correctly seated and oriented. Inspect PCB for unintended solder connections and remove them.
Intermittent sound or erratic behavior.	<ul style="list-style-type: none"> Loose component or poor solder joint. Environmental interference. 	<ul style="list-style-type: none"> Re-inspect all solder joints and components for secure connections. Test in a different location away from strong electromagnetic fields.

8. SPECIFICATIONS

- Model:** WSG105
- Power Supply:** 9V DC (battery not included)
- Dimensions (assembled PCB):** Approximately 50 x 50 x 12 mm (1.9 x 1.9 x 0.5 inches)
- Function:** Electronic musical instrument (Theremin) with pitch control via hand proximity.
- Manufacturer:** Velleman (Whadda brand)
- Usage:** Amateur, educational soldering kit.

9. WARRANTY AND SUPPORT

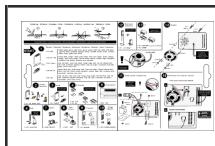
This Whadda WSG105 Junior Theremin Soldering Kit is provided as a DIY educational product. Due to the nature of self-assembly and soldering, specific warranties on the assembled product may vary. Please refer to the manufacturer's official website or the retailer's policy for detailed warranty information regarding individual components or the kit itself.

For technical support or inquiries regarding missing components, please contact Whadda customer service or the retailer from whom the kit was purchased.

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This manual is for informational purposes only. Whadda is a brand of Velleman.

Related Documents - WSG105



[Whadda WSAH194 Digitally Controlled FM Radio Soldering Kit Instructions](#)

Step-by-step assembly instructions for the Whadda WSAH194 digitally controlled FM radio soldering kit, detailing components and soldering procedures.

	<p>Whadda WPI300 3x4 Matrix Membrane Keypad User Manual</p> <p>User manual for the Whadda WPI300, a 3x4 matrix membrane keypad designed for Arduino projects. Includes product overview, specifications, installation guide, and example code.</p>
	<p>Whadda WPSE323 Current Sensor ACS712 Module - 20A User Manual</p> <p>User manual for the Whadda WPSE323 Current Sensor ACS712 Module, a 20A AC/DC current sensing solution. Includes product overview, specifications, pin layout, and Arduino code example.</p>
	<p>Whadda WPI440 FT232 USB-to-TTL Adapter User Manual</p> <p>User manual for the Whadda WPI440, a versatile USB-to-serial UART/TTL adapter featuring the FT232RL chip. This device provides easy USB connectivity for microcontrollers like Arduino, supporting switchable 3.3V and 5V operation and offering features such as over-current protection and DTR pin for auto-reset.</p>
	<p>Whadda WPI437 1.3" OLED Screen User Manual</p> <p>User manual for the Whadda WPI437 1.3-inch OLED display module with SH1106 driver and SPI interface. Includes specifications, pin layout, connection examples, and Arduino code for prototyping.</p>
	<p>Whadda WPI405 Arduino-compatible RFID Read-and-Write Module User Manual</p> <p>User manual for the Whadda WPI405, an Arduino-compatible RFID read-and-write module. Provides detailed specifications, connection diagrams, usage instructions, and safety guidelines for integrating the module with Arduino projects.</p>

Documents - Whadda – WSG105

WHAEDA EXCITING ELECTRONICS						WHAEDA.COM	PRODUCT TRANSITIONLIST
Starts June 1st, 2018 for the following products:							
All brands and all device types in the following table will be transitioned to the new WHAEDA product codes.							
For more information on the new WHAEDA product codes, refer to the WHAEDA Product Code Transition Guide .							
Information for the following products is provided for review. Please refer to the WHAEDA Product Code Transition Guide for more information.							
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W20002	W20002		950209	PLAQUA DE DESARROLLO AT-1700042501954A
W20003	W20003		950209	PLAQUA DE DESARROLLO AT-1700042502425
W20007	W20007		950209	PLAQUA DE DESARROLLO AT-1700042502408
W20007	W20007		950209	LESAK KEPACHON (2 PAR ALUMINIO) - L-0003
W20121	W20121		950209	REFRESCO KEPACHON (2 PAR ALUMINIO) - L-0003
W20200	W20200		950209	TEJIDO DE MEMBRANA PATRÓN 3 X 3
W20201	W20201		950209	DETALLE DE TECNICO REAL (CON PLACAS DE ULO)
W20202	W20202		950209	HOJAS DE TRANSPARENTE HC-45
W20204	W20204		950209	SEÑAL DE ALUMINIO DE SUELO Y SEÑAL DE M. DE ARA
W20206	W20206		950209	SHS-D2-16000 TACOS (30 PAR ALUMINIO) (100)
W20208	W20208		950209	SEÑAL DE ALUMINIO DE SUELO Y M. DE ARA (100)
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W20211	W20211		950209	SEÑAL DE TECNICO REAL Y CON PLACAS DE ULO (200)
W2023	W2023		950209	SEÑAL ADICIONAL DE CESTO (100 PAR ALUMINIO)
W2026	W2026		950209	DETALLE DE M. DE ARA

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Untitled LISTA DE TRANSICIÓN PRODUCTOS Whadda ProductsTransitionList ES cdn velleman eu
whadda |||

whadda.com LISTA DE TRANSICIN DE PRODUCTOS Recientemente, hemos transformado Velleman for Makers e ... MLP105 MLP106 MLP109 MLP110 MLP111 MLP107 MLP108 Whadda Producto WSL103 Cdigo EAN WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL107 WSL108 Descripcin del producto MADLAB KIT ELECTRNIC...

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WHADDA
EXCITING ELECTRONICS

PRODUCT TRANSITIONLIST

Recently Velleman for Makers has been transformed to Whadda! Je leest er alles over in dit artikel Om speciale event te vieren hebben we heel wat typische Whadda ProductsTransitionList NL velleman eu whadda ||| whadda.com PRODUCT TRANSITIONLIST Sinds kort heet Velleman for Makers gewoon Whadda Je leest er a ... 04 MLP105 MLP106 MLP109 MLP110 MLP111 MLP107 MLP108 Whadda Product WSL103 Barcode WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL107 WSL108 Omschrijving MADLAB ELECTRONIC KIT - ATOM HE...

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WHADDA
EXCITING ELECTRONICS

PRODUCTS TRANSITION LIST

Recently Velleman for Makers has been transformed to Whadda! Je leest er alles over in dit artikel Om speciale event te vieren hebben we heel wat typische Whadda ProductsTransitionList NL velleman eu whadda ||| whadda.com PRODUCTS TRANSITION LIST Recently Velleman for Makers has been transformed to Whadda Y ... LP104 MLP105 MLP106 MLP109 MLP110 MLP111 MLP107 MLP108 NEW PRODUCT WSL103 BARCODE WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL107 WSL108 DESCRIPTION MADLAB ELECTRONIC KIT - ATOM HEA...

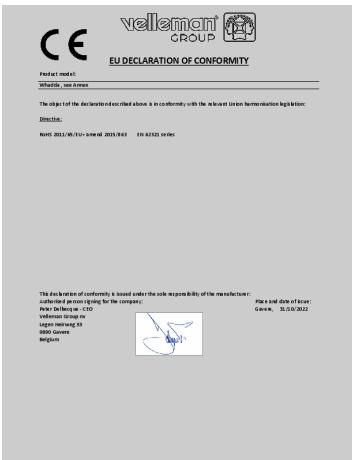
lang:i-klingon **score:26** filesize: 994.26 K page_count: 13 document date: 2022-07-16

WHADDA
EXCITING ELECTRONICS

LISTA DE TRANSICIÓN DE PRODUCTOS

Recently Velleman for Makers has been transformed to Whadda! Je leest er alles over in dit artikel Om speciale event te vieren hebben we heel wat typische Whadda ProductsTransitionList NL velleman eu whadda ||| whadda.com LISTA DE TRANSICIÓN DE PRODUCTOS Recientemente, hemos transformado Velleman for Makers e ... MLP105 MLP106 MLP109 MLP110 MLP111 MLP107 MLP108 Whadda Producto WSL103 Codigo EAN WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL107 WSL108 Descripción del producto MADLAB KIT ELECTRNIC...

lang:es **score:26** filesize: 1.36 M page_count: 13 document date: 2021-02-26



[\[pdf\] Declaration of Conformity](#)

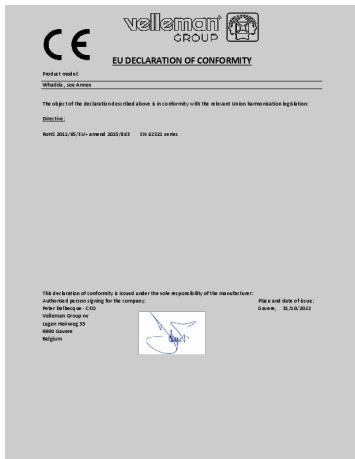
CE RoHS Openm jg Document Of Conformity Whadda WPI304N SD Card Logging Shield For Arduino®
Rapid Electronics 73 4627doc v1 static rapidonline |||

Product model: Whadda , see Annex EU DECLARATION OF CONFORMITY The
object of the declaration descr ... PSH216 WPSH405 WPSH412 WPSH454
WPSH455 WPSH604 WSAK205 WSAK206 WSAK207 WSAK208 WSG101 WSG102
WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL103 WSL107 WSL108
Gavere, 31/10/2022 ...

lang:nl score:26 filesize: 251.57 K page_count: 10 document date: 2025-04-17

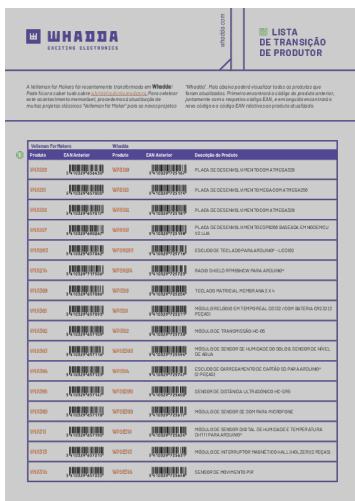
[\[pdf\] Declaration of Conformity](#)

CE RoHS Openm jg UKCA REACH documentDownloads à Support Velleman Wholesaler and developer
of electronicsce rohs opencdn velleman eu doc ce open electronicsWhadda see Annex The object the
declaration described above is in WPM421 WPSE352 WMW103 WPI425 WPM422 WPSE353 WMW104
WPI435 WPM424 WPSE355ce openv1cdn openjameco Jameco Products ProDS 2354743REACH
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listed accordance with essential requirements regulation 1907 2006 concerningce openv1v1v1v1cdn
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concerningWhadda WSG105 WPB439 WPM327 WPSE324 WSG106 WPI300 WPM331 WPSE325
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WPSE346 WCS400 WPI410 WPM407 WPSE347 WMW101 WPI411 WPM411 WPSE350ce
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scbYWzTUD3ZzC9itWwmMuKJqgS47ztw WPM400 WPSE337 WCS104 WPI402 WPM401 WPSE340
WCS200 WPI403 WPM402 WPSE341Whadda openv1v1v1v1v1v1cdn
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4AB6NKp70sRo2fac ||| ||| Product model: Whadda , see Annex EU DECLARATION OF CONFORMITY
The object of the declaration described above is in conformity with the relevant Union harmonisation
legislation: Directive: RoHS 2011/65/EU amend 2015/863 EN 62321 series This ||| Product model:
Whadda , see Annex EU DECLARATION OF CONFORMITY The object of the declaration described
above is in conformity with the relevant Union harmonisation legislation: Directive: RoHS 2011/65/EU
amend 2015/863 EN 62321 series This ||| Product model: Whadda , see Annex EU DECLARATION OF
CONFORMITY The object of the declaration described above is in conformity with the relevant Union
harmonisation legislation: Directive: RoHS 2011/65/EU amend 2015/863 EN 62321 series This ||| Product
model: Whadda , see Annex EU DECLARATION OF CONFORMITY The object of the declaration



Product model: Whadda , see Annex EU DECLARATION OF CONFORMITY The object of the declaration descr ... PSH216 WPSH405 WPSH412 WPSH454 WPSH455 WPSH604 WSAK205 WSAK206 WSAK207 WSAK208 WSG101 WSG102 WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL103 WSL107 WSL108 Gavere, 31/10/2022 ...

lang:nl score:26 filesize: 248.07 K page_count: 10 document date: 2022-10-31



[pdf]

Untitled LISTA DE TRANSIÇÃO PRODUTOR Velleman WPM406 MÓDULO RELÉ 5 V VMA407N
WPM407 PHOTOSENSITIVE SENSOR MODULE WITH 3 PIN CABLE VMA409 WPI409 L298N DUAL
BRIDGE DC STEPPER MOTOR CONTROLLER Whadda ProductsTransitionList PT cdn velleman eu
whadda III

whadda.com LISTA DE TRANSIO DE PRODUTOR A Velleman for Makers foi recentemente transformada em Wha ... LP105 MLP106 MLP109 MLP110 MLP111 MLP107 MLP108 Whadda Produto WSL103 EAN Anterior WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL107 WSL108 Descrio do Produto MADLAB ELECTRONIC KIT - A...

lang:pt score:26 filesize: 1010.7 K page_count: 13 document date: 2022-07-16

[pdf]

Untitled LISTE DE PRODUITS TRANSFORMÉS Velleman WPM421 POMPE À EAU VMA422 WPM422
VALVE VMA424 WPM424 MODULE D ALIMENTATION POUR BREADBOARD 2 CANAUX 3 V 5
VMA427 WPA427 CÂBLE DE Whadda ProductsTransitionList FR cdn velleman eu whadda |||
whadda.com LISTE DE PRODUITS TRANSFORMS Rcemment, Velleman for Makers
a t transform en Whadda Dc ... MLP105 MLP106 MLP109 MLP110 MLP111 MLP107
MLP108 Whadda Produit WSL103 Code barre WSG104 **WSG105** WSG106 WSG109
WSG110 WSG111 WSL107 WSL108 Description MADLAB ELECTRONIC KIT -
ATOM HEA...
lang:fr score:25 filesize: 1009.62 K page count: 13 document date: 2022-07-16

lang:tr score:25 filesize: 1009.62 K page_count: 13 document date: 2022-07-16

[pdf]

Check our full Whadda product transition list PRODUCTS TRANSITION LIST Below you can find all the products that we have upgraded First see former known code with accompanying EAN Nov 13 2020 — ProductsTransitionList EN velleman eu whadda whadda.com PRODUCTS TRANSITION LIST Recently Velleman for Makers has been transformed to Whadda Y ... LP104 MLP105 MLP106 MLP109 MLP110 MLP111 MLP107 MLP108 NEW PRODUCT WSL103 BARCODE WSG104 **WSG105** WSG106 WSG109 WSG110 WSG111 WSL107 WSL108 DESCRIPTION MADLAB ELECTRONIC KIT - ATOM HEA... lang:i-klingon score:25 filesize: 1.35 M page count: 13 document date: 2021-02-26

lang:i-klingon score:25 filesize: 1.35 M page_count: 13 document date: 2021-02-26

[\[pdf\]](#) User Manual

Untitled JUNIOR THEREMIN Quasar ElectronicsFit and solder the electrolytic capacitors C2 C3 to board putting shorter leg into hole with sign The legv1quasarelectronics co uk manuals whadda madlab wsg105 junior theremin manual srslid AfmBOoqPbIcOJrGzYwJuaT9RFqMoBQI4 TXcnzqDDX9Gj2rNPnArNnH6

JUNIOR THEREMIN a musical instrument you play without touching brown, black, green, gold brown, black, orange, gold brown, black, brown, gold brown, black, red, gold brown, black, red, gold brown, black, brown, gold brown, black, brown, gold R1 R2 R3 R4 1M 10k 100R 1k R5...

lang:en score:22 filesize: 195.36 K page_count: 2 document date: 2022-08-18

WHADDA EXCITER ELECTRONICS		PRODUCTS TRANSITION LIST			
Recently Velleman for Makers has been transformed to Whadda. If you are interested about the remaining in Velleman to continue for Makers project to new Whadda project you can find the products that we have updated. First you can find the former Velleman product code with accompanying EAN code and then the new Whadda product code with accompanying EAN code and the corresponding updated product.					
[pdf]					
Untitled Whadda ProductsTransitionList EN 1 quasarelectronics co uk whadda.com PRODUCTS TRANSITION LIST Recently Velleman for Makers has been transformed to Whadda Y ... 29001322 NEW PRODUCT WSG191 WSL193 WSL197 WSMI198 WSL210 WSL212 WSL220 WSG101 WSG102 WSL103 WSG104 WSG105 WSG106 WSL107 WSL108 WSG109 WSG110 WSG111 WSMI1702 WSMI8115 WSMI132 BARCODE DESCRIPTION ...					
WSG191	WPSH405	WSL193	WPSH412		
WSL197	WPSH455	WSMI198	WPSH604		
WSL210	WSAK205	WSL212	WSAK206		
WSL220	WSAK207	WSG101	WSAK208		
WSG101	WPSH102	WSG102	WPSH104		
WSG102	WPSH105	WSG104	WPSH106		
WSG105	WPSH107	WSL103	WPSH108		
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WSL108	WPSH110	WSG110	WPSH110		
WSG110	WPSH111	WSG111	WPSH111		
WSMI1702	WPSH112	WSMI1702	WPSH112		
WSMI8115	WPSH113	WSMI132	WPSH113		
WSL103	WPSH114	WSL107	WPSH114		
WSL107	WPSH115	WSL109	WPSH115		
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WSL104	WPSH118	WSL106	WPSH118		
WSL106	WPSH119	WSL102	WPSH119		
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WSL105	WPSH121	WSL107	WPSH121		
WSL107	WPSH122	WSL109	WPSH122		
WSL109	WPSH123	WSL111	WPSH123		
WSL111	WPSH124	WSL104	WPSH124		
WSL104	WPSH125	WSL106	WPSH125		
WSL106	WPSH126	WSL108	WPSH126		
WSL108	WPSH127	WSL110	WPSH127		
WSL110	WPSH128	WSL105	WPSH128		
WSL105	WPSH129	WSL107	WPSH129		
WSL107	WPSH130	WSL111	WPSH130		
WSL111	WPSH131	WSL104	WPSH131		
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WSL106	WPSH133	WSL108	WPSH133		
WSL108	WPSH134	WSL110	WPSH134		
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WSL105	WPSH136	WSL107	WPSH136		
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WSL106	WPSH140	WSL108	WPSH140		
WSL108	WPSH141	WSL110	WPSH141		
WSL110	WPSH142	WSL105	WPSH142		
WSL105	WPSH143	WSL107	WPSH143		
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WSL107	WPSH172	WSL111	WPSH172		
WSL111	WPSH173	WSL104	WPSH173		
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WSL107	WPSH179	WSL111	WPSH179		
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WSL106	WPSH329				