

THANK YOU
FOR CHOOSING
A GENUINO™
BOARD AND
SUPPORTING
THE COMMUNITY



Genuino



**GENUINO IS AN OPEN-SOURCE
ELECTRONICS PLATFORM BASED
ON FLEXIBLE, EASY-TO-USE
HARDWARE AND SOFTWARE.
IT'S INTENDED FOR ARTISTS,
DESIGNERS, INVENTORS, AND
ANYONE INTERESTED IN
CREATING INTERACTIVE
OBJECTS OR ENVIRONMENTS.**

INFORMATION & TUTORIALS

GENUINO.CC



OPEN-SOURCE IS LOVE

Genuino products intended for sale and use in worldwide markets comply with the applicable international requirements for product safety, electromagnetic compatibility (EMC), essential safety & usage information, WEEE, RoHS, quality, and for use in hazardous locations. Products delivered into the European Economic Area (EEA) comply with the directives of the European Community (EC). Products delivered into North America comply with their respective directives. The products bears CE and/or FCC marks which is tested and certified by GENUINO to comply with the EC and/or USA directives.

MANUFACTURING

All components and solder alloys used in this product comply with the RoHS Directive. The RoHS Directive prevents all new electrical and electronic equipment placed on the market in the European Economic Area from containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, poly-brominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

SAFETY

All boards are labelled with the FCC and CE logo, as they meet the electromagnetic compatibility standards set in their respective jurisdictions. Genuino products meet the essential requirements of EU Directive 2001/95/CE General directive on products safety and Directive 93/68/CE.

FCC COMPLIANCE (USA)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. NOTE: This equipment has been tested and found to comply with the

limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/ TV technician for help.

The following parties are responsible for the compliance of radio frequency equipment with the applicable standards: in the case of equipment subject to authorization under the verification procedure, the manufacturer or, in the case of imported equipment, the importer. If subsequent to manufacture and importation, the radio frequency equipment is modified by any party not working under the authority of the responsible party, the party performing the modification becomes the new responsible party.

WARNING: Exposure to radio frequency radiation. The radiated output power of this device is below the FCC and Industry Canada radio frequency exposure limits.

TESTING

Products are subject to triple testing to make sure they are not faulty:

- First, printed circuit boards are thoroughly tested for short circuits and open connections.
- Then, boards are powered (and, in products containing a microcontroller, the bootloader is programmed) to check there are no macroscopic problems preventing the board from turning on.
- Finally, the most in-depth test: the board is placed into a custom bed of nails tester, and programmed by a test program, which checks its overall functionality.



**Arduino, LLC US, does
business as GENUINO outside
the U.S.**



LIMITED WARRANTY STATEMENT

1. WARRANTIES.

GENUINO warrants that its products will conform to the Specifications. If the board is bought outside the EU this warranty lasts for one (1) year from the date of the sale.

If the board is bought in the EU this warranty lasts for two (2) years from the date of the sale.

GENUINO shall not be liable for any defects that are caused by neglect, misuse or mistreatment by the Customer, including improper installation or testing, or for any products that have been altered or modified in any way by the Customer. Moreover, GENUINO shall not be liable for any defects that result from the Customer's design, specifications or instructions for such products. Testing and other quality control techniques are used to the extent GENUINO deems necessary.

1.2

If any GENUINO product fails to conform to the warranty set forth above, GENUINO's sole liability shall be to replace such products. GENUINO's liability shall be limited to products that are determined by GENUINO not to conform to such warranty. If GENUINO elects to replace such products, GENUINO shall be given a reasonable time to

provide replacements. Replaced products shall be warranted for a new full warranty period.

1.3

THIS LIMITED WARRANTY IS THE END-USER'S SOLE AND EXCLUSIVE REMEDY AGAINST GENUINO WHERE PERMITTED BY LAW. AND SUBJECT TO SECTION (3). EXCEPT AS SET FORTH ABOVE, PRODUCTS ARE PROVIDED "AS IS" AND "WITH ALL FAULTS". GENUINO DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, REGARDING PRODUCTS, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

1.4

The Customer agrees that prior to using any systems that include GENUINO products, the Customer will test such systems and the functionality of the products as used in such systems.

GENUINO may provide technical, applications or design advice, quality characterization, reliability data or other services. The Customer acknowledges and agrees that providing these services shall not expand or otherwise alter GENUINO's warranties, as set forth above, and that no additional obligations or liabilities shall arise from providing such services.

1.5

GENUINO products are not authorized for use in safety-critical applications where a failure of the GENUINO product would

reasonably be expected to cause severe personal injury or death. Safety-critical applications include, without limitation, life support devices and systems, equipment or systems for the operation of nuclear facilities and weapons systems. GENUINO products are neither designed nor intended for use in military or aerospace applications or environments, nor for automotive applications or the automotive environment. The Customer acknowledges and agrees that any such use of GENUINO products is solely at the Customer's risk, and that the Customer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

1.6

The Customer acknowledges and agrees that the Customer is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning the products and any use of GENUINO products in the Customer's applications, notwithstanding any applications-related information or support that may be provided by GENUINO.

2. CONSEQUENTIAL DAMAGES WAIVER

In no event shall GENUINO be liable to the Customer or any third parties for any special, collateral, indirect, punitive, incidental, consequential or exemplary damages in connection with or arising out of the products provided hereunder, regardless of whether GENUINO has been advised of the possibility of such damages. This section will survive the termination of the warranty period.

3. CHANGES TO SPECIFICATIONS

GENUINO may make changes to specifications and product descriptions at any time, without notice. The Customer must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined". GENUINO reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The product information on the Web Site or Materials is subject to change without notice. Do not finalize a design with this information.

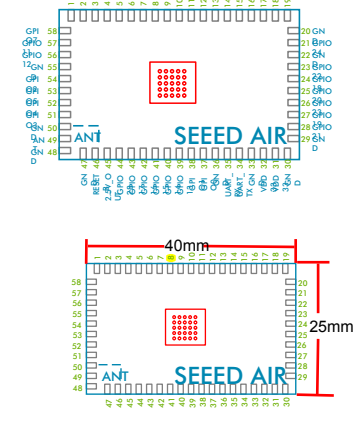
4. STATUTORY LAWS *

(i) some countries, regions, states or provinces do not allow the exclusion or limitation of remedies or of incidental, punitive, or consequential damages, or the applicable time periods, so the above limitations or exclusions may not apply.

(ii) except to the extent lawfully permitted, this limited warranty does not exclude, restrict or modify statutory rights applicable to where the product is sold but, rather, is in addition to these rights.

(*) European Consumer Centres provide information on EU-wide consumer laws as well as consumer laws for specific countries:

→ http://ec.europa.eu/consumers/ecc/contact_en.htm



Seed Air is a wireless IoT Module design for internet of things applications. The Seed Air running Linux System..

The Linux OS is running into the AR9331. The feature of the Linux part is processing the data, provide web server for management and internet connection.

The Seed Air provides below methods to access to the internet:

Connect to the home router via 2.4G , 802.11 b/g/n wifi connection.

Connect to the home router via the LAN ports

The USB interface is used to connect to the USB mass storage to store data.

Depends on the customer's requirement.

Seed Air provides numbers of GPIO pins which can use to connect to different sensors.

The whole system is powered by 3.3 DC power and the maximum power consumption of this module is around 300mW