

All essential radio test suites have been carried out.

ASPECTS	STANDARD NUMBER
Health & Safety	EN IEC 62311:2020 EN 62368-1:2014+A11:2017
EMC	EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.4 EN 301 489-52 V1.2.1 EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019 EN61000-3-3:2013+A1:2019
Effective Use of Spectrum	EN 300 328 V2.2.2 EN 301 893 V2.1.1 EN 300 440 V2.2.1 EN 301 908-1 V13.1.1 EN 301 908-13 V13.1.1 EN 300 220-1 V3.1.1 EN 300 220-2 V3.2.1



FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- 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.
- This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

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 off 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.
 - To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID: 2AAU7-AH3 CONTAINS FCC ID: XMR202008EG91NAXD

IC

IC Caution

- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 - This device may not **cause interference**.
 - This device must accept any interference, including interference that may cause undesired operation of the device.
- FR
- L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
 - L'appareil ne doit pas produire de brouillage;
 - L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC:11391A-AH3 CONTAINS IC: 10224A-021EG91NAXD

5.1 SPECIFICATIONS

MODEL NUMBER

- ah3s.zw8us.4G

SYSTEM

- ARM Cortex-A7 Quad-Core
- 1.3 GHz CPU
- 256MB RAM
- 4GB FLASH

NETWORK

- Ethernet 100BASE-TX
- Wifi 802.11 a/c/b/g/n/ac
- Bluetooth 5/LE
- Radio module: Z-Wave™ 800
- Cellular / 4G with DIV antenna

OPERATING SYSTEM

- Linux

POWER

- Power supply input 12VDC
- Power supply adapter (USB-C); 100-240VAC 50/60 Hz
- Battery backed RTC
- Power usage: idle: <1.2W; Max: 3W

PHYSICAL DIMENSION

- 7.68(W) x 7.68(H) x 1.71 (D) inches
- 195,31 x 195,18 x 43,44 mm

ENVIRONMENTAL

- Temperature Range:
- Operating: 0°C - 40°C (32°F to 104°F)
- Storage: -25°C - 70°C (-13°F to 158°F)
- Humidity: 5% to 95% non-condensing

INPUT/OUTPUT

- USB-A; 2.0 downstream port

REGULATORY COMPLIANCE

- FCC
- CE
- IC



Alloy Hub v3s



1. | IMPORTANT SAFETY INSTRUCTIONS

Disconnect the network cable and power adapter or any other connected peripherals if any of the following conditions exist:

- The power cord or connector is damaged or frayed.
- The Alloy Hub v3 or cables are exposed to rain, water/fluids, or excessive moisture.
- The Alloy Hub v3 power adapter is damaged and you suspect it needs to be serviced.
- i Avoid installing the Alloy Hub v3 near or inside sources of electromagnetic interference.
- Clean only with a dry cloth.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- Only use attachments and accessories specified by the manufacturer.

2. | DISPOSING AND RECYCLING YOUR PRODUCT

Alloy Home designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging. literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

DISCLAIMER

Some content and services accessible through this device belong to third parties and are protected by copyright, patent, trademark and/or other intellectual property laws. Such content and services are provided solely for your personal non-commercial use. You may not use any content or services in a manner that has not been authorised by the content owner or service provider. Without limiting the foregoing, unless expressly authorised by the applicable content owner or service provider, you may not modify, copy, republish, upload, post, transmit, transiate, sell, create derivative works, exploit, or distribute in any manner or medium any content or services displayed through this device.

At Alloy Home, we understand and are committed to reducing any impact our operations and products

3. | ONE (1) YEAR LIMITED WARRANTY

Alloy Home, LLC warrants this product (the "Product") against defects in materials and/or workmanship under normal use for a period of ONE (1) YEAR from the date of purchase by the original purchaser ("Warranty Period"). If a defect arises and a valid claim is received resulting from the use of or inability to use this Product, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, EVEN IF COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSIONS MAY NOT APPLY TO YOU. TO THE EXTENT PERMITTED BY APPLICABLE LAW, ALLOY HOME product or part assumes the remaining warranty of the original Product. When a Product or part is exchanged, any replacement item becomes your property and the replaced Product or part becomes Alloy Home's property. Obtaining Service: To obtain warranty service, visit <https://smartent.com/contact-support>. Please be prepared to describe the Product that needs service AGAINST HIDDEN OR LATENT DEFECTS. IF ALLOY HOME CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE WARRANTY PERIOD. Limited Warranty must be submitted to Alloy Home before the end of the warranty period. Exclusions: This warranty does not apply to a) damage caused by failure to follow instructions relating to the Product's use or the installation of components; b) damage caused by earthquake or other external causes; c) damage caused by service performed by anyone who is not an authorized representative of Alloy Home; d) accessories used in conjunction with a covered Product; e) a Product or part that has been modified to alter functionality or capability; f) items intended to be periodically replaced by the purchaser during the normal life of the Product, including, without limitation, batteries, bulbs or cables; g) purpose, in each case as determined by Alloy Home. EXCEPT FOR BODILY INJURY, ALLOY HOME SHALL NOT BE LIABLE FOR (i) ANY LOST PROFITS, COST

4. | DECLARATION OF CONFORMITY

We, Alloy Home, LLC, 8665 E. Hartford Drive, Suite 200, Scottsdale, AZ 85255, declare that the product Alloy Hub v3 is in compliance with all the technical regulations applicable to the product within the scope of Council Directives 2014/53/EU. To access latest certification please follow the link: smartent.com/hardware/docs. Manufacturer's Name: Alloy Home, LLC Address: 8665 E. Hartford Drive, Suite 200, Scottsdale, AZ 85255 Product name: Alloy Hub v3 Models: ah3s.zw8eu.4G, ah3.zw8eu, ah3.zw8eu Operating Temperature: -10° C to 35° C

FUNCTION	OPERATION FREQUENCY	MAX RF OUTPUT POWER:
Wi-Fi	802.11b/g/n(20MHz): 2412~2472MHz; 802.11n(40MHz):2422~2462MHz	4.7dbm
BT(BR+EDR)	2402MHz~2480MHz	20 dbm.
Wi-Fi	802.11a/n20/ac20:5180MHz~5240MHz 802.11n40/ac40:5190MHz~5230MHz	16.98 dbm
Wi-Fi	802.11a/n20/ac20:5260MHz~5320MHz 802.11n40/ac40:5270MHz~5310MHz	17.84 dbm
Wi-Fi	802.11a/n20/ac20:5500MHz~5700MHz 802.11n40/ac40:5510MHz~5670MHz	14.2 dbm
Wi-Fi	802.11a/n20/ac20:5755MHz~5825MHz 802.11n40/ac20:5802.11a/802.11ac80:5610MHz	13.32 dbm
LIMIT	2402MHz~2480MHz	-1.5 dbm

Alloy Home, LLC hereby declares that this Smart device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

EU Declaration of Conformity
We, Alloy Home, LLC, (8665 E. Hartford Drive, Suite 200, Scottsdale, AZ 85255) hereby declare that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. According to Article 10(2) of Directive 2014/53/EU, Alloy Hub v3 can be used in Europe without restriction.
The full text of the EU declaration DOC is available at the following: smartent.com/hardware/docs.

Restrictions in the 5 GHz band:
According to Article 10 (10) of Directive 2014/53/EU, the packaging shows that this device will be subject to some restrictions when placed on the market in Belgium (BE), Bulgaria (BG), Croatia (HR), Germany (DE), Estonia (EE), France (FR), Greece (EL), Ireland (IE), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE), the United Kingdom (UK), Turkey (TR), Norway (NO), Switzerland (CH), Iceland (IS), and Liechtenstein (LI).
The WLAN function for this device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range.