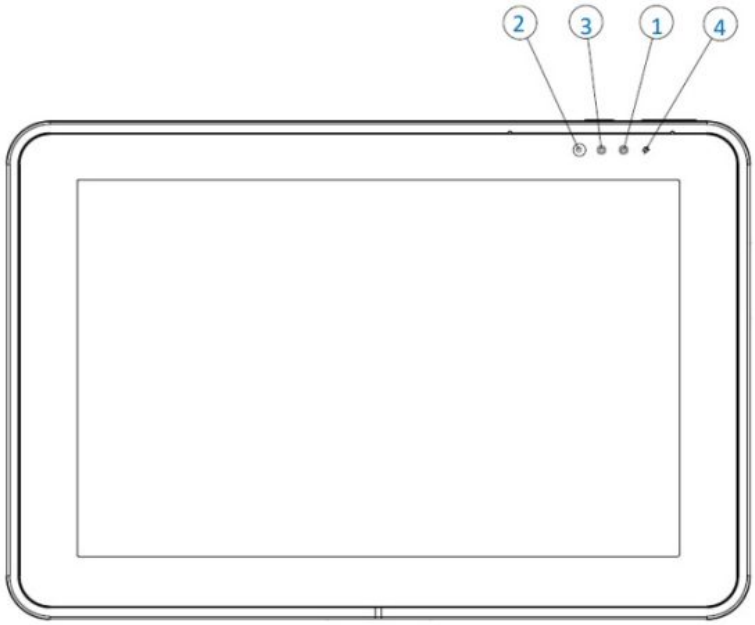
oona Android Tablets User Guide

oona 10
Quick Start Guide
oona 10 Windows (INARI-D-10-WIG-1)
and oona 10 Android
(INARI-E-10-WIG-1) Tablets

Contents

oona 10 Features, Buttons & Interfaces

Front

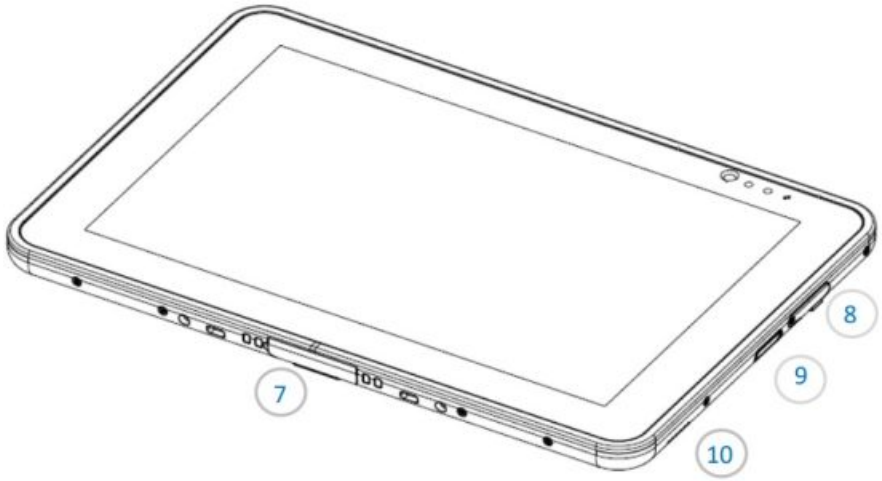


1	Ambient Light Sensor Recognizes the ambient light and adjusts the display brightness if enabled in the operating system	
2	Front camera 13MP (5MP*) camera for video conferencing	
3	Camera Indicator LED Lights up if camera is activated and during device boot and shutdown	
4	Charging indicator LED	
	OFF	not connected to charger
	ORANGE	charging
	GREEN	connected and fully charged
	RED BLINKING	charge fault

Top Side

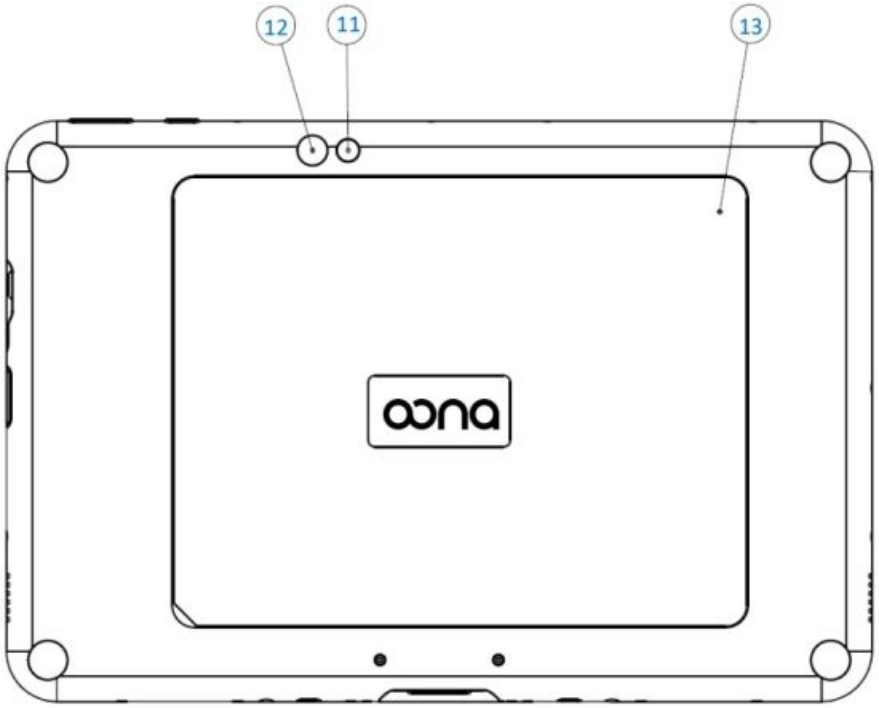
5	On / Off Button Push it once to start the tablet; push it again to enable the sleep mode. Push and hold it to shut down the device. Push it for more than 10secs to reset the device.
6	Volume key Push the left side to reduce the volume, use the right side to increase the volume

Right and Bottom Side



7	Docking connector hatch with protective cover
8	USB-C for charging, data, digital audio and video
9	Fingerprint Sensor / Programmable Key
10	Stereo speakers (double mono speakers on oona 10 Android)

Rear View

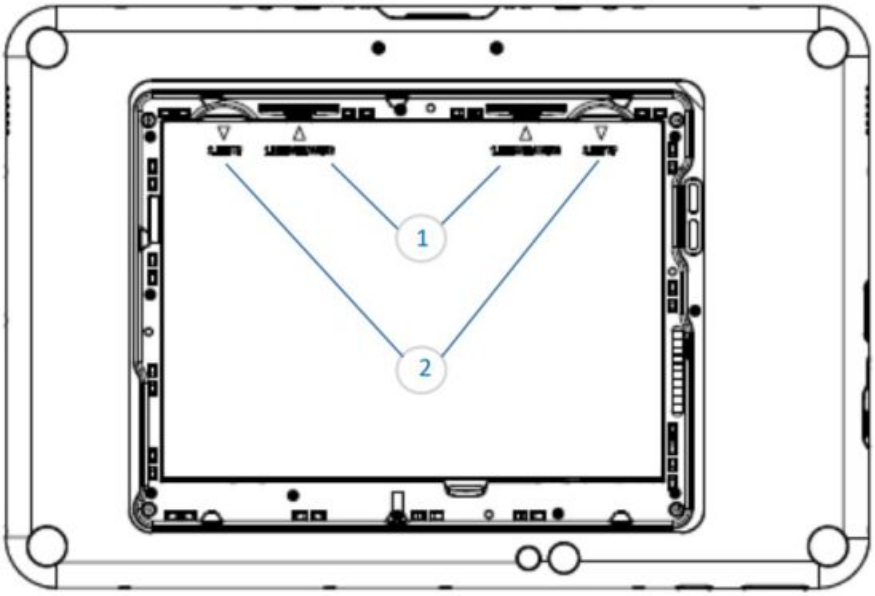


11	Camera flash LED
12	Rear camera 13MP camera for high resolution images & video
13	Battery lid (with custom logo sticker)

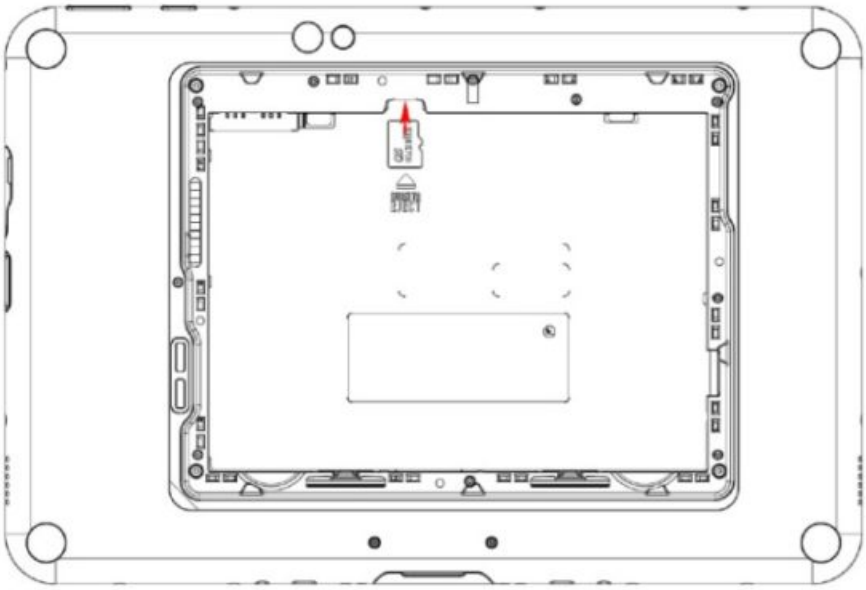
Replacing Battery / Adding Memory Card

To replace the battery, release both battery lockers (1) and lift up the battery (2). Use only the recommended

battery for replacement.



The memory card can be inserted on the upper side, please ensure you insert it in the right direction as shown on the picture.



When putting the battery back in place, please ensure to put the battery lid in place securely and make sure it is firmly locked. Any operation of the tablet without using the battery lid is not allowed.

Using the Tablet for the first Time

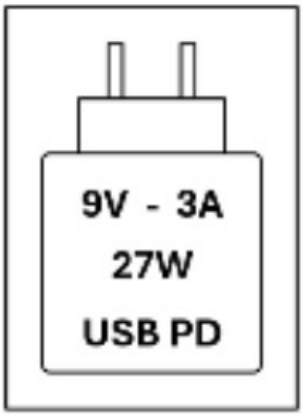
1. Connect a power supply for the first time and make sure battery is fully charged before disconnecting. The specified temperature range of 0…50°C for charging has to be kept. We recommend a charging dock or docking station to charge the tablet.
2. For environmental reasons this package does not include a charger. This device can be powered with most USB power adapters of at least 27W and a cable with USB Type-C plug.
3. To turn on the tablet, press the power button once.
4. Follow the instructions in the operating system to complete the setup.
5. Carefully open the cover of the dock connector on the bottom side. The sealing may not be damaged or

removed.

Troubleshooting
In case devices freezes and you need to do a hard reset, press and hold the power button for more than 10 seconds.
Device will be turned off now.
Connecting USB3.0 devices while being connected to a WLAN network requires it to be a 5 GHz connection to maintain it.
2.4 GHz networks will be disconnected on the oona side while USB3.0 devices are in use.

Important Product and Safety Information

- Do not drop, bend, or twist your tablet. This can break tablet display glass, internal circuit boards or mechanics. If the glass breaks, do not touch the glass parts of the device or attempt to remove the broken glass from the device. Stop using the device until the glass is replaced by qualified service personnel.
- Showing static images for more than two hours may result in display damages.
- Do not try to disassembly your tablet. This may damage the device.
- Operate your device in a place where temperature is between -10°C and +50°C. Operation between -10°C to 0°C will result in limited performance.
- Charge your device with the recommended charger in a place where temperature is between 0°C and +50°C. Please note that charging speed is reduced at high temperatures.
- Store your device in a place where temperature is between -20°C and +60°C. Please note that battery storage requires special handling, so please check the comments about battery safety.



- This product is equipped with USB-C connector, intended to be supplied by certified power supply capable of providing 5V-9V according to USB specification.
- For charging the socket-outlet shall be installed near the equipment and shall be easily accessible.
- Protect your device from water and moisture intake.
  Keep connector doors closed when not in use to prevent water and moisture intake.
- Listen to a headset at a moderate level, and do not place the device loudspeaker outlets near your ear when the loudspeakers are in use.
- Use only soft, clean and dry lint-free cloth to clean your device.
- This equipment is not suitable for locations where children are likely to be present.
- Switch off your device before boarding to an aircraft.
- Switch off your device in any area with a potentially explosive atmosphere.
- Your device meets guidelines for exposure to radio waves (SAR, Specific Absorption Rate) when kept in a close distance to your body.
- Power rating for the device: 12.0V ⎓ 2.0A for Docking Interface, 9.0V ⎓ 3.0A for USB-C PD Charging.

- Use only PS2 (LPS) compliant wall charger that has at least 27W and follows USB-C standard.
- Do not disconnect charger by pulling the cord.
- Do not use damaged power cords or plugs.
- Save energy. You can save energy by doing following.
  o Close unused applications and data connections.
  o Decrease screen brightness and sound volume.
  o Deactivate unnecessary sounds like touch panel sound.
  o Disconnect your charger from mains outlet when charger is not needed.
  o Do no keep unnecessary accessories connected in your device.
- **Recycle.** Return your used electronic units to dedicated collection points. Please note that your tablet has a battery, so it is not allowed to be disposed to normal household waste and battery requires separate recycling.
- **Replaceable battery safety**

 o Batteries have life cycles. If the time that the battery powers equipment becomes much shorter than usual, the battery life might be at the end. Replace the battery when a significant loss of run time is detected.

 o When batteries are stored over six (6) months, some irreversible deterioration in overall battery quality may occur.

o Store batteries at half of full charge in a dry, cool place, removed from the equipment to prevent loss of capacity, rusting of metallic parts and electrolyte leakage. Do NOT store it at full charge, especially not in high temperature environments.

o Do not store the battery for more than 1 month in environments with temperatures between 35°C to 60°C (≤90%RH).

o Stop using the tablet if abnormal heat, odor, discoloration, deformation, or abnormal condition is detected during use, charge, or storage.

o Do not throw battery into fire, it may be exploded.

o Do not soak the battery with liquid like water, tea, coffee etc.

o Do not hit, bend, deform or drop the battery.

o Do not pierce battery with a sharp object such as a needle, etc.

o Keep battery away from children.

o The battery should not have liquid from electrolyte flowing, but in case the electrolyte gets into contact with eyes, don’t rub your eyes. Wash your eyes well with clean water and go to see a doctor immediately. In case the electrolyte gets into contact with your skin, wash it well with clean water.

o Do not externally short-circuit the battery. If externally short-circuited, the battery may be heated, ignited or broken.

o Wait for at least 30 mins after switching off the device before opening the battery cover.

o Carefully open the battery cover. The battery may be hot and may burn your fingers.

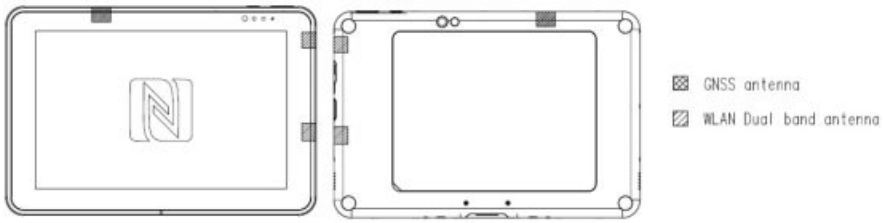
o Caution – The battery used in this device may not be heated above 60°C or incinerated. There’s a high danger of explosion, flammable liquid leakage or gas leakage.

o Replace battery with Aava Mobile Oy’s AMME5260 (oona 10 Android) or AMME4974 (oona 10 Windows) only. Use of another battery may present a risk of fire or explosion.

o Dispose of used battery promptly. Do not disassemble and do not dispose of it in fire. Do not leave the battery in extremely low air pressure.

Warning Statements
To prevent possible hearing damage, do not listen at high volume levels for long periods.
The tablet is intended for operation by professional users only.

Antenna Positions
Your device meets guidelines for exposure to radio waves (SAR, Specific Absorption Rate) when kept in a close distance to your body. It is recommended to learn the antenna positions as mentioned below and not to touch or bring your body close to these antenna areas. Antenna areas are highlighted in below pictures.



*oona 10 Android doesn't support GNSS

Conformity Declarations

Depending on the actual model, the following conformity / compliance statements are valid. Please check the type label of your device for further information.

EU Declaration of Conformity
Hereby, Aava Mobile declares that the radio equipment of both oona 10 devices is in compliance with Directive 2011/65/EU and 1999/5/EC or 2014/53/EU (2014/53/EU supersedes 1999/5/EC from 13th June 2017). The full text of the EU Declaration of Conformity is available at the following internet address: **http://www.oona-solution.com/doc**

CE Marking and European Economic Area (EEA)
The use of RLAN's, for use throughout the EEA, have the following restrictions:

- Maximum radiated transmit power of 100mW EIRP in the frequency range 2.400 – 2.4835 GHz
- 5.13 – 5.35 GHz is restricted to indoor use only

Bluetooth® Wireless Technology for use through the EEA has the following restrictions:

- Maximum radiated transmit power of 100mW EIRP in the frequency range 2.400 -2.4835 GHz

UKCA Statement of Compliance
Non-radio devices and accessories: Aava Mobile hereby declares that this equipment is in compliance with Electromagnetic Compatibility Regulations 2016, the Electrical Equipment (Safety) Regulations 2016 and the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
Radio enabled devices: Aava Mobile hereby declares that this equipment is in compliance with the Radio Equipment Regulations 2017 and the Restriction of the Use of Certain Hazardous Substances in Electronic Equipment Regulations 2012.
Any radio operation limitations within the UK are identified in the UK Declaration of Conformity.
The full text of the UK Declaration of Conformities is available at: **https://www.oona-solution.com/doc**
UK Importer
t.b.c.

Wireless Devices Country Approvals
Regulatory markings, subject to certification, are applied to the device signifying the radio(s) are approved for use in the following countries: United States, Canada, and Europe[1]. Please refer to the Aava Mobile Declaration of Conformity (DoC) for details of other country markings. This is available at **http://www.oona-solution.com/doc**.

[1]Europe includes: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.
The device supports WLAN 5150-5350MHz with indoor usage restrictions.

FCC Compliance Statement

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.

Radio Transmitters (Part 15)
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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user‘s authority to operate the equipment.

FCC type approval IDs 2ABVH-INARI10D1 (contain FCC ID 2ABVH-AX211D2W) and 2ABVH-INARI10E1

RF Exposure Information (SAR)
This model device meets the government’s requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U. S. Government. The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg (WLAN version). Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels using only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.
While there may be differences between the SAR levels of various devices and at various positions, they all meet

the government requirement.
The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of **http://www.fcc.gov/oet/fccid** after searching on the below:
FCC IDs 2ABVH-INARI10D1 (contain FCC ID 2ABVH-AX211D2W) and 2ABVH-INARI10E1. This device is compliant with SAR for general population / uncontrolled exposure limits in SNAI / IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in the Office of Engineering and Technology (OET) Laboratory Division Knowledge Database (KDB), 447498 D03.

	oona 10 Windows	**oona 10 Android**
Specific Absorption Rate (SAR)	1.191W/kg (WLAN version)	1.48W/kg (WLAN version)

This product has been tested and found to comply with the following standards:

- For the worst-case positions, the oona 10 complies with the IC RSS 102 Issue 5 (RSS 102) and Federal Communications Commission (FCC) Guidelines (KDB) 447498 D03 for uncontrolled exposure.
  SAR assessment in body worn was conducted at a distance of 0mm between the housing of the handheld and the flat phantom.
- EM 62311:2008: Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz).

Radio Frequency Interference Requirements – Canada

CAN ICES-3 (B)/NMB-3(B)

Radio Transmitters
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
This Class B digital apparatus complies with Canadian ICES-003.
IC: 11875A-INARI10D1 (oona 10 Windows, contains IC: 11875A-AX211D2W), 11875A-INARI10E1 (oona 10 Android)
IC Radiation Exposure Statement
This EUT is in compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
This device is restricted to indoor use only when operating in 5150 to 5250MHz frequency range.
This device is restricted to indoor use only when operating in 5925 to 7125MHz frequency range. Operation on oil platforms, automobiles, trains, maritime vessels and aircraft is prohibited except for on large aircraft flying above 3,048 m (10,000 ft).

Radiation Exposure Statement (SAR)
Warning: This equipment complies with SAR for general population / uncontrolled exposure limits in SNAI / IEEE C.951, Federal Communication Commission Office of Engineering and Technology (KDB) 447498 D03, Canada RSS-102, and CENELEC limits for exposure to radio frequency (RF) radiation.

	oona 10 Windows	oona 10 Android
Specific Absorption Rate (SAR)	1.191W/kg (WLAN version)	1.48W/kg (WLAN version)

802.11a Radio Precaution Statement
– The device for operation in the band 5.150-5.250 GHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
– Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5.250-5.350 GHz and 5.650-5.850 GHz and that these radars could cause interference and/or damage to LE-LAN devices.

802.11 Radio Precaution statement
Users are responsible for configuring the channels of operation that comply with their country's regulatory standards.
A Wireless Network Administrator should review the operating restrictions detailed within the Access Point installation manual.

Radio Frequency Interference Requirements – Brazil
The device meets the SAR limit of 2.0W/kg established by Anatel (National Telecommunications Agency in Brazil). The product should be kept at least 1.5cm from the body to ensure compliance with the radio frequency exposure limits.

Transmit Power

Radio	Frequency	Max. Output Power (oona 10 Windows)	Max. Output Power (oona 10 Android)
NFC	13.56 MHz	60 dBuA@10 m	5 60 dBuA@10 m
BT	2.4-2.4835 GHz	10 dBm(EIRP)	10 dBm(EIRP)
2.4 GHz WLAN	2.4-2.4835 GHz	20 dBm(EIRP)	20 dBm(EIRP)
5 GHz WLAN Wi-Fi 6E	5.15-5.35 GHz	22.1 dBm(EIRP)	22.2 dBm(EIRP)
	5.47-5.725 GHz	22.1 dBm(EIRP)	23.0 dBm(EIRP)
	5.725-5.850 GHz	12.04 dBm(EIRP)	14.8 dBm(EIRP)
	5.945-6.425 GHz	21 dBm(EIRP)	22.9 dBm(EIRP)

Frequency band 5.945 – 6.425 GHz:
Restricted to indoor use, including in trains with metal-coated windows and aircrafts.
Outdoor use, including in road vehicles, is not permitted.
Notes: The frequency range for 5 GHz WLAN in Japan is 5.150-5.720 GHz.
The frequency range for Wi-Fi 6E in Japan is 5.955-6.425 GHz.

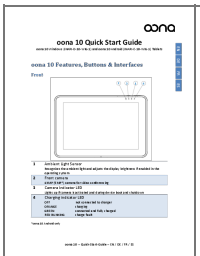
Waste Electrical and Electronic Equipment (WEEE)

For EU Customers: All products at the end of their life must be returned to Aava Mobile for recycling. For information on how to return product, please go to: **https://www.pepperl-fuchs.com/global/en/42217.htm?**.

Nahkatehtaankatu 2
FI-90130 Oulu, Finland
Tel.: +358 8 373 800
Aava Mobile GmbH
Harksheider Str. 3
22399 Hamburg, Germany
Tel.: +49 40 6979 5939
www.oona-solution.com

IN02040094.2

Documents / Resources

	oona Android Tablets [pdf] User Guide Android Tablets, Android, Tablets

References

- solution.com is for sale | www.oxley.com
- FCC ID Search | Federal Communications Commission
- Take-Back and Recycling in the EU—WEEE | Pepperl+Fuchs
- Take-Back and Recycling in the EU—WEEE | Pepperl+Fuchs
- User Manual