

**Main model: ONYX-MD102N**

10.1" LCD with LED Backlight Intel®  
Alder Lake N200 Processor Mobile  
Medical Assistant Tablet

ONYX-MD102N Manual 1st Ed  
June, 2025

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## Packing List

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Before you begin installing your Mobile Medical Assistant Tablet PC, please make sure that the following items have been shipped:

- ONYX-MD102N Mobile Medical Assistant Tablet
- Medical Power Adapter 15V/4.34A
- Utility DVD-ROM, which contains Drivers and user manual
- VESA Adapter (Optional) with Screw M4\*6 mm x2 (Tablet to mount)

If any of these items are missing or damaged, you should contact your distributor or sales representative immediately.

- **Power cord should follow the specification below:**

UL Listed, CSA approval, Detachable, Type SJT or above. 125/250 V minimum, 18 AWG/3C minimum, 3.0 m long maximum. One end terminates in 125 V, 15 A, with NEMA 5-15P or 250 V, 15 A with NEMA 6-15P, grounding type, the other end with an appliance coupler. Hospital grade.

- **Please use the USB interface external DVD Driver or check the ONYX Official website to download drivers:**

<https://www.onyx-healthcare.com/>

If any of these items are missing or damaged, you should contact your distributor or sales representative immediately.

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## Safety & Warranty

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1. Read these safety instructions carefully.
2. Keep this user's manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
8. **Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.**
9. **Patient is not intended operator, do not touch the device and patient at the same time.**
10. **Warning: Power adapter is considered part of medical equipment; to avoid risk of electric shock, this equipment must only be connected to a supply main with protective earth.**

**(Avertissement : L'adaptateur d'alimentation est considéré comme faisant partie des produits**

**médicaux. Pour éviter tout risque d'électrocution, cet équipement ne doit être connecté qu'à un réseau d'alimentation avec mise à la terre.)**

11. Position the power cord so that people cannot step on it.  
Do not place anything over the power cord.
12. All Cautions and Warnings on the equipment should be noted.
13. If the equipment is not used for a long time, unplug the power cord to disconnect it from the power source to avoid damage by transient over-voltage Never pour any liquid into an opening. This could cause fire or electrical shock.
14. **Never open the equipment. For safety reasons, only authorization of the manufacturer should open the equipment.**
15. **Warning: Do not modify this equipment without authorization of the manufacturer.**  
**(Avertissement: Ne pas modifier cet équipement sans l'autorisation du fabricant)**
16. **Warning : It is necessary for checking or replacing the battery pack every year.**  
**(Avertissement: Il est nécessaire de vérifier ou de remplacer la batterie chaque année)**
17. **When the tablet is under heavy loading, the battery may stop charging due to overheating. When this**

behavior happens, turn off the tablet before charging.

**18. If any of the following situations arises, get the equipment checked by service personnel of the manufacturer:**

- a. The power cord or plug is damaged.
- b. Liquid has penetrated into the equipment.
- c. The equipment has been exposed to moisture.
- d. The equipment does not work well, or you cannot get it to work according to the user's manual.
- e. The equipment has been dropped and damaged.
- f. The equipment has obvious signs of breakage.

**20. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4°F) OR ABOVE 60° C (140° F). IT MAY DAMAGE THE EQUIPMENT.**

**21. External equipment intended for connection to signal input/output or other connectors, shall comply with relevant UL / IEC standard (e.g. UL 60950-1/62368-1 for IT equipment and ANSI/AAMI ES 60601-1 AND CAN/CSA-C22.2 No. 60601-1) Any person who connects external equipment to signal input, signal output, or other connectors has formed a system and is therefore responsible for the system to comply with the standard IEC 60601-1, safety requirements for medical electrical systems.**

**Caution:**

*It may cause the danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer.*



## Avoiding Hearing Damage

Permanent hearing loss may occur if earphones, headphones or speakers are used at high volume. To prevent this, the volume should be set to a safe level. You can become desensitized over time to high sound levels which may then sound acceptable yet still could damage your hearing. If you experience symptoms such as ringing in your ears, please lower the volume or stop using the earphones/headphones. The louder the volume, the less time is required before your hearing could be affected.

Hearing experts suggest the following measures to protect your hearing:

- Limit the amount of time you use earphones or headphones at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you cannot hear people speaking near you. To establish a safe volume level:
- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

The ONYX-MD102N device can produce sounds in decibel ranges that may cause hearing loss for a normal hearing person, even when exposed to for less than a minute. The maximum sound level of the unit is in parity with the sound levels that a healthy young person can produce while screaming. Since the ONYX-MD102N device is intended as a voice prosthetic, it shares the same possibilities and potential risks of causing harm to hearing. The higher decibel ranges are offered to enable communication in a noisy environment and should be used with care and only when needed in noisy environments.

 **Temperature Notice:**

The product must be placed on a table or hung on a wall for use, and handheld contact should not exceed 10 seconds.

## Classification

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1. Degree of protection against electric shock: not classified
2. Mode of operation: Continuous
3. Type of protection against electric shock: Class I equipment
4. No Applied Part, No AP/APG

## FCC

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**Warning!**



*This device complies with Part 18 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.*

## UL Module Description

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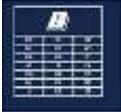


*ONYX-MD102N modules is developed to be suitable for the Component Mark requirement*

## Safety Symbol Description

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The following safety symbols are the further explanations for your reference.

	<p>Refer to instruction manual</p>
	<p>Direct current</p>
	<p>Alternating current</p>
	<p>Protective Earth (Ground).</p>
	<p><b>Certification mark description:</b> Belgium (BE), Netherlands (NL), Denmark (DK), Austria (AT), Switzerland (CH), Luxembourg (LU), Liechtenstein (LI), Republic of Ireland (IE), Portugal (PT), Spain (ES), Finland (FI), Germany (DE), Poland (PL), Estonia (EE), Croatia (HR), Norway (NO), Italy (IT), Iceland (IS), France (FR), Sweden (SE), Slovenia (SI)</p>

## Contents

### Chapter 1 General Information

1.1 Introduction.....	1-2
1.2 Feature .....	1-3
1.3 Specification .....	1-4
1.4 Dimension .....	1-8

### Chapter 2 Hardware Installation

2.1 Safety Precautions .....	2-2
2.2 Quick Tour of the ONYX- MD102N .....	2-3
2.3 Turn On and Boot up into Windows.....	2-7
2.4 Turn off.....	2-7

### Chapter 3 Driver Installation

### Appendix A Miscellanea

A.1 General Cleaning Tips.....	C-2
A.2 Cleaning Tools .....	C-3
A.3 Scrap Computer Recycling .....	C-5

Chapter

1

# General Information

## **1.1 Introduction**

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Vital Sign is a building block of all the tasks nurses do every day, and also a fundamental element for doctors to determine what kind of treatment and medication should be given. How to optimize nurses' time and improve the data correctness by automating the vital sign frontline reporting is the winning key to deliver an excellent nursing care service. ONYX-MD102N is designed for this purpose. It is a common protocol nowadays to be addressed by many different world-known EMR software.

By consistency, doctors/clinicians can utilize the data among the ward, operation room, nurse station, pharmacy, and even outside facilities, like hemodialysis center, nursing care house and home.

### **Features**

1. 10.1" Automated Vital Sign Tablet
2. Fast and complete data exchange among all care areas
3. Improve the accuracy of vital sign records.
4. Seamless integration of various devices, like BP Monitor, Respirator, Anesthesia Machine, Injection Pump...etc.
5. Considerable Cable management for Pulse Oximetry, Blood pressure Wristband and Barcode Gun...etc.

## **Intended use**

The MD102N is intended to serve as a computer for integration with hospital systems. MD102N is designed for general purpose medical computing with built-in CPU, memory, storage, thermal solution, enclosure in the hospital environment, for data collection and for displaying information. The machine and power supply must not be used outdoors or in areas where an explosion hazard may occur. The user has to make sure the requirements from IEC 60601-1 are fulfilled, especially in combination from this machine with other electrical equipment. And it shall not be used for **the** life supporting system. The latest version of this user manual is available for download from [https://www.onyx-healthcare.com/service\\_en\\_3.php](https://www.onyx-healthcare.com/service_en_3.php)

## **1.2 Feature**

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- Intel® Alder Lake processor
- Slimmer & light weight design for clinical mobility
- Long life battery, supports intensive care service
- Standard USB Type-A/Type-C for easy connection with medical device
- 3 feet drop resistant
- ORION client compatible
- Support VESA 75 via VESA Adapter
- EN60601-1 & UL60601-1 Certified
- Ergonomic design for portable and trolley use

## 1.3 Specification

### Main System Specifications

CPU	Intel® Alder Lake-N N200 3.70 GHz (6W)
System Memory	LPDDR5 on board, 8GB
Storage	NVME on board 256GB
I/O	<p>USB 3.0 (Type-A) x1 Max 0.9 A                      USB 3.0 (Type-C) x1 Max 1.5 A                      3.5mm Combo Audio Jack x1</p> <p><b>[Note] The connected of SIGNAL INPUT/OUTPUT PART need to compliance with IEC standard.</b></p>
Wireless Communication	Intel AX210 802.11 ax/a/b/g/n +BT 5.2 (on Board chip)
GPS	NA
Gyroscope Sensor	LSM6DSO
Accelerometer Sensor	LSM6DSO
Audio Codec	REALTEK. ALC888S
Speaker	2W speaker x2 with BOX
Security	fTPM (A Firmware-based TPM)
Power input	15V DC / 4.34A
Internal Lithium-Ion Battery pack	<p>Manufacturer: GLW                      Model Name: 9789M10200                      Rating: 7.2Vdc 8200mAh/59.04Wh</p>
System Cooling	Fan less
RF Output power	<p>IEEE_802.11b: 17.44 dB m                      IEEE_802.11g: 18.09 dB m                      UNII_Band_I: 18.48_dBm                      UNII_Band_II: 18.03_dBm                      UNII_Band_III: 16.32 dBm</p>

## Front Panel Design

<b>Control Button</b>	Power Button: x1 Volume Keys: x2 Home Key: x1
<b>DMIC</b>	Integrated into the Button Board
<b>Camera</b>	Rear 8.0/ Front 2.0M pixels camera (optional)
<b>LED Power indicator</b>	[w/ adaptor] Charging => Blue LED. [w/ adaptor] Full => Green LED.
<b>Thermal Sensor</b>	Detect (>70degree C) : Shut down
<b>Light Sensor</b>	YES

## Display Specification

<b>LCD size</b>	10.1" Color TFT-LCD
<b>Brand</b>	AUO
<b>LCD Model Number</b>	B101UAN01.0
<b>Resolution</b>	1920 x 1200
<b>Luminance (cd/m2)</b>	380
<b>Contrast Ratio</b>	800:1
<b>Viewing Angel</b>	Horizontal: Right 85 (Typ) / Left 85 (Typ) Vertical: Up 85 (Typ) / Down 85 (Typ)
<b>Interface</b>	EDP
<b>Backlight Lifetime (Hrs.)</b>	30,000
<b>Weight</b>	140g

**Note:**

All ONYX LCD products are manufactured with High precision technology. However, there are a small number of defective pixels in all LCD panels that are not able to change color. This is a normal occurrence for all LCD displays from all manufacturers and should not be noticeable or objectionable under normal operation. All LCD panels are qualified for industry standard conditions in the following: total 7 dead pixels on a screen or if there are 3 within 1 inch square area of each other on the display.

**Touch Screen Specification**

<b>Touch Type</b>	PCT
<b>Brand</b>	Capway
<b>Touch Model Number</b>	T09HDHU10118A
<b>TS Controller</b>	SIS9255B
<b>Interface</b>	USB

**Power Adapter Specification**

<b>Model</b>	Adapter Technology Co. Ltd. ATM065T-P150
<b>AC input</b>	100-240V AC@50-60 Hz 1.6-0.7A
<b>DC output</b>	15V / 4.34A, 65W max



## Mechanical Specifications

Architecture	Magnesium Aluminum Alloy Rear Cover + Plastic casing
Color	Font Cover: Black, Rear Cover: <a href="#">Dark Gray</a> or <a href="#">Blue</a>
Mounting	VESA 75mm (Via VESA Cradle)
Dimension (W x H x D)	264.5 x 12.5 x 32 (mm)
Net Weight	Approx. <a href="#">1.2Kg</a>

## Accessory

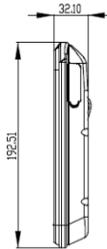
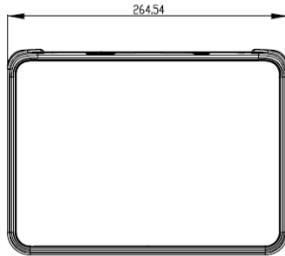
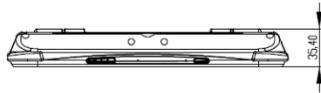
VESA Adapter	VESA 75 x 75 Screw M4*6 x2
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## Environmental Specifications

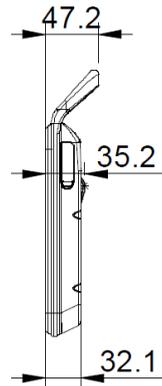
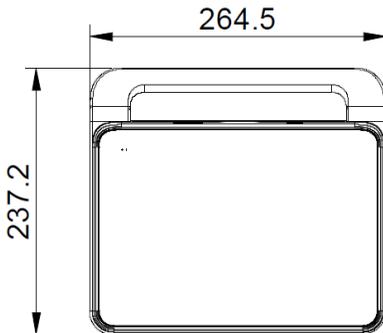
Operating Temperature	0°C ~35C (14°F ~ 86°F)
Operating Humidity	30% to 75% RH, non-condensing
Operating Pressure	700 to 1060 hPa
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Humidity	10%~90%
Storage Pressure	700 to 1060 hPa
Vibration	0.5G / 5 ~ 500Hz (Random) / operation
Shock	20G peak acceleration (11 msec. duration) / operation
Drop(with packaging)	120 cm (1 Corner, 3 Edge, 6 Surface)

### 1.4 Dimension

The ONYX-MD102N has 2 types of Enclosure shapes:



Or



Chapter

2

# Hardware Installation

## 2.1 Safety Precautions

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**Warning!**



*Always completely disconnect the power cord from your board whenever you are working on it. Do not make connections while the power is on, because a sudden rush of power can damage sensitive electronic components.*

**Caution!**



*Always ground yourself to remove any static charge before touching the board. Modern electronic devices are very sensitive to static electric charges. Use a grounding wrist strap at all times. Place all electronic components on a static-dissipative surface or in a static-shielded bag when they are not in the chassis*

## 2.2 Quick Tour of the ONYX-MD102N

Before you start to set up ONYX-MD102N, take a moment to become familiar with the locations and purposes of the controls, drives, connections and ports, which are illustrated in the figures below.

When you place ONYX-MD102N upright on the desktop, its front panel appears as shown in Picture 2-1. The ONYX-MD102N includes various I/O ports in left and right side, including a DC-IN Jack, an Audio Jack, one USB A ports and one USB C output.



or



*Picture 2.1: Front View of the ONYX-MD102N*

When you turn the ONYX-MD102N around and look at its rear cover, it contains an 8MP camera and high quality of stereo speakers.



or



## Mounting

ONYX-MD102N comes with a VESA cradle, which is equipped with a standard 75x75 mm VESA holes from rear side for adapter mount using M4\*6L 2 pcs, for the other side mount to the Stand, the screw of M4\*8L x4 pcs are required, see figure below to mounting method and direction.



## 2.3 Turn On and Boot up into Windows OS

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This section is for Windows operating system only. If you are installing a different operating system, please contact your vendor for installation details.

Your ONYX-MD102N will begin loading Windows OS once you push the power button to turn power on. After less than one minute, Windows desktop screen will appear.

You can select the programs from the start menu in the left-down corner of the desktop screen.

## 2.4 Turn off

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Turning off ONYX-MD102N properly is important for system reliability. There are two ways to turn off the system.

1. On the start menu, click “shut down” and select “OK”
2. Push the power button and then the system will shut down automatically

Chapter

3

**Driver  
Installation**

There are several installation ways depending on the driver package under different Operating Systems.

***Please follow the sequence below to install the drivers:***

**For Windows 10/11**

Step 1 – Chipset Driver

Step 2 – Graphics Driver

Step 3 – Realtek LAN Driver

Step 4 – Realtek Audio Driver

Step 5 – TPM 2.0 Driver(for Windows 7)

Step 6 – ME Driver

Step 7 – Resistive Touch Screen Driver(only for ET series)

Appendix

A

**Miscellanea**

## A.1 General Cleaning Tips

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You may need the following precautions before you begin to clean the computer. When you clean any single part or component for the computer, please read and understand the details below fully.

1. Never spray or squirt the liquids directly onto any computer component. If you need to clean the device, please rub it with a piece of dry cloth.
2. Be cautious of the tiny removable components when you use a vacuum cleaner to absorb the dirt on the floor.
3. Turn the system off before you start to clean up the component or computer.
4. Never drop the components inside the computer or get circuit board damp or wet.
5. Be cautious of all kinds of cleaning solvents or chemicals when you use it for the sake of cleaning. Some individuals may be allergic to the ingredients.
6. Try not to put any food, drink or cigarette around the computer.
7. ONYX Healthcare Inc. has tested and verified these cleaning disinfectants, can be used with the ONYX-MD102N. Use of any other disinfectants will void the warranty.

## A.2 Cleaning Tools

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Although many companies have created products to help improve the process of cleaning your computer and peripherals users can also use household items to clean their computers and peripherals. Below is a listing of items you may need or want to use while cleaning your computer or computer peripherals.

Keep in mind that some components in your computer may only be able to be cleaned using a product designed for cleaning that component, if this is the case it will be mentioned in the cleaning tips.

**Cloth** - A piece of cloth is the best tool to use when rubbing up a component. Although paper towels or tissues can be used on most hardware as well, we still recommend you to rub it with a piece of cloth.

**Water or rubbing alcohol** – You may moisten a piece of cloth a bit with some water or rubbing alcohol and rub it on the computer. Unknown solvents may be harmful to the plastics parts.

**Vacuum cleaner** - Absorb the dust, dirt, hair, cigarette particles, and other particles out of a computer can be one of the best methods of cleaning a computer. Over time these items can restrict the airflow in a computer and cause circuitry to corrode.

**Cotton swabs** - Cotton swabs moistened with rubbing alcohol or water are excellent tools for wiping hard to reach areas in your keyboard, mouse, and other locations.

**Foam swabs** - Whenever possible it is better to use lint free swabs such as foam swabs.

**Note:**

***We strongly recommended that you should shut down the system before you start to clean any single components.***

**Please follow the steps below.**

1. Close all application programs.
2. Close operating software.
3. Turn off power switch
4. Remove all device
5. Pull out power cable

## A.3 Scrap Computer Recycling

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If the computer equipments need the maintenance or are beyond repair, we strongly recommended that you should inform us as soon as possible for the suitable solution. For the computers that are no longer useful or work well, please contact with worldwide distributors for recycling.

The worldwide distributors show on the following website:

<http://www.onyx-healthcare.com.tw/Contact.php>

**Note:**

Follow the national requirement to dispose unit

## Appendix

# B

## Compliance Information

## B.1 FCC Statement

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Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. **Transmitters in the 5.925-7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.**

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.

### B1.1 For P15B Equipment

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.

## B1.2 For Portable Devices

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for typical hand held operations with the device contacted directly to the human body to the sides of the device. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting.

## B1.3 Antenna Frequency and Compliance with Limit EIRP

Technologies	Operating Frequency (MHz)	Max. Transmit Power	Note
Bluetooth	2402-2480 MHz	11.89	EIRP
BLE	2402-2480 MHz	9.32	EIRP
WLAN 2.4 GHz	2412-2472 MHz	18.69	EIRP
WLAN 5 GHz	5180-5240 MHz	19.86	EIRP
WLAN 5 GHz	5260-5320 MHz	19.76	EIRP
WLAN 5 GHz	5500-5700 MHz	19.94	EIRP
WLAN 5 GHz	5745-5865 MHz	10.96	EIRP
WLAN 5 GHz	5955-6415 MHz	19.68	EIRP

## **B.2 Radio Wave Exposure and SAR Information**

The SAR (Specific Absorbtion Rate) limit as dictated by the FCC (in the USA) is 1.6W/kg averaged over 1 gram of tissue. In Europe/EU (CE regulations) it is 2.0 W/kg averaged over 10 grams of tissue. The Devices, ONYX-MD102N (FCC ID: [RZ5-MD102N-AX211](#)) have been tested against these SAR limits to maintain compliance with FCC/CE RF exposure requirements.

This equipment complies with FCC/EU RF radiation exposure limits set forth for an uncontrolled environment.

## B.3 CE Statement

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This equipment complies with the requirements relating to electromagnetic compatibility, the essential protection requirement of Electromagnetic Compatibility (EMC) Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility and Radio Equipment Directive (RED) 2014/53/EU to meet the regulation of the radio equipment and telecommunications terminal equipment.

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

This device meets the EU requirements (2014/53/EU) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

Hereby, ONYX Healthcare.com declares that the radio equipment type ONYX-MD102N is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.onyx-healthcare.com](http://www.onyx-healthcare.com).

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. The limits are part of extensive recommendations for the protection of the general public. These recommendations have been developed and checked by independent scientific organizations through regular and thorough evaluations of scientific studies. The unit of measurement for the European Council's recommended limit for mobile devices is the "Specific Absorption Rate" (SAR), and the SAR limit is 2.0 W/Kg averaged over 10 grams of body

tissue. It meets the requirements of the International Commission on Non-Ionizing Radiation Protection (ICNIRP).

For next-to-body operation, this device has been tested and meets the ICNRP exposure guidelines and the European Standard EN 50566 and EN 62209-2. SAR is measured with the device directly contacted to the body while transmitting at the highest certified output power level in all frequency bands of the mobile device