

Product Manual

☑With Sample recognition	☐Without Sample recognition
☐First time recognize	□Non-first time recognize

Material number:	60635N00055860W		
Material name:	WBOPS_WB55860W_RK3566 EDLA Android box		
Version number of recognition:	A		
Supplier:	Guangzhou Lango Electronics Technology CoGuangzhou Lango Electronics Technology Co.,Ltd,Ltd.		
Supplier address: 15/f, Building B1, No 11, Guangpu Road, Huangpu di Guangzhou, Guangdong, P.R. China			
Sample series number:			

Supplier	Producer	Auditor	Approve	Sample delivery date
Confirm	Juan.Zhu	Lynn.Chen	Yurong.Chen	

HiteVision	R&D recognize	Quality review	Approve	Recognize date
Recognition				



Sample Change Description

1.Change history		
☐First time change	date:	
□second time change	date:	
□others:	date:	
Change reason: □Client reques	t □Internal change □Mold damage □others	
Change category:□Design chan	ge \square Standard change \square technology change	□Packing change
□Label chang	e □size change □others	
2.Content of change		
☐First time change		
Before change: (If necessary, p	please add the corresponding picture, the cha	ange details should be
described clearly here)		
After change: (If necessary, pl	ease add the corresponding picture, the cha	ange details should be
described clearly here)	7 31 7	3
,		
\square Second time change: and so o	n	



Catalogue

Sample Change Description	
Catalogue	
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1. Product Introduction

XM.R3566.D uses core Rockchip RK3566 chip, it is configured with ARM Cortex-A55 CPU, Mali G52 series GPU, and 1 TOPS NPU, supported Android 12.1L system. Standard 8GB DDR and 64 GB eMMC, Wi-Fi 6+Bluetooth 5.2, high-performance and low power, the function of which can perform fluently and stably.

XM.R3566.D can support interfaces: Micro SD, 1000Mbps RJ45, USB2.0, USB3.0, Analog MIC, Debug, Power In.

Additional instructions are as follows:

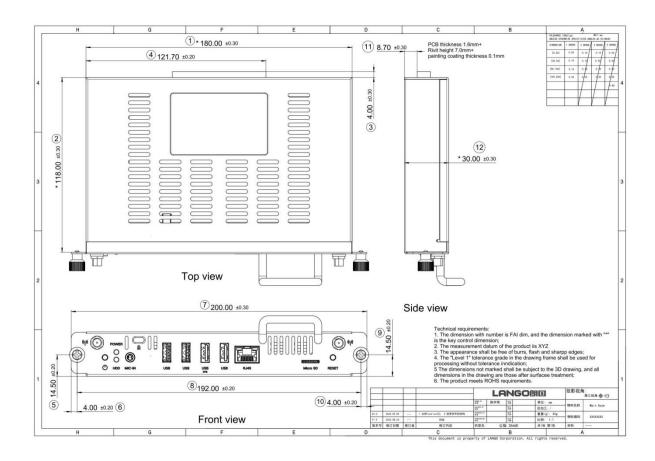
Function	Description		
	Developer Options:		
Multitooking window	1. Open two apps		
Multitasking window	2. Open the multi-task view (the small square in the bottom right corner of		
separation operation instructions	the screen), swipe left, long press the icon above the second task and		
Instructions	select spilt left/right		
	3. Tap another app		
	Developer Options:		
	1. In the User version firmware, go to		
	Settings -> About tablet -> Build number (double click 10 times quickly) ->		
	Click back -> System -> Developer options -> Drop down to find the USB		
	debugging option. This function is disabled by default in the user version		
USB preferences	firmware.		
setting	2. If the debugging function is disabled, the OTG port is in host mode. In		
	host mode, the USB device (equivalent to a normal USB port) can be		
	identified normally.		
	3. After the debugging function is enabled, the OTG is in Device mode and		
	can be connected to the computer through this port. adb debugging,		
	fastboot debugging, and firmware burning using the RK tool are also		



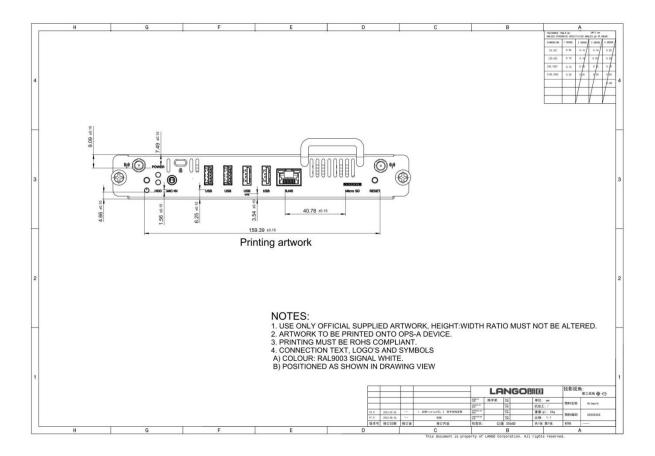
	through this port. 4. In this problem list, the OTG port must be in Device mode to enable the file transfer function.
The USBOTG interface connects to wireless mouses and keyboards	Developer Options: 1. In the User version firmware, go to Settings -> About tablet -> Build number (double click 10 times quickly) -> Click back -> System -> Developer options -> Drop down to find the USB debugging option. This function is disabled by default in the user version firmware. 2. If the debugging function is disabled, the OTG port is in host mode. In host mode, the USB device (equivalent to a normal USB port) can be identified normally. 3. After the debugging function is enabled, the OTG is in Device mode and can be connected to the computer through this port. adb debugging, fastboot debugging, and firmware burning using the RK tool are also through this port. 4. The functions in this menu require the OTG port to be in Device mode.
Long press/short press the OPS Power Button to power off (the power button does not work when the large screen is on)	Support usual function of power on , power off and screen off following large screen.



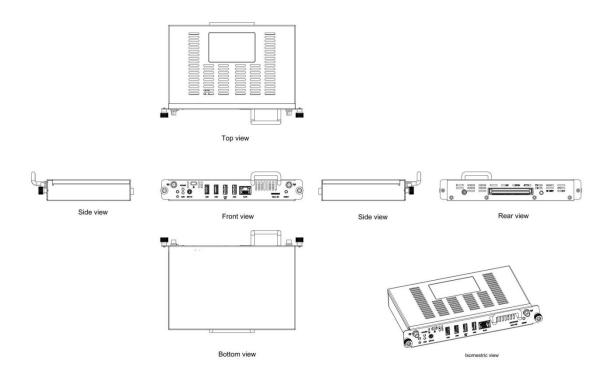
2. Product Size/Graphic Description













3. Product Specification Parameter Description

Hardware configuration			
	CPU: Quad-core Cortex-A55		
Product configuration	GPU: Mail-G52-2EE		
	NPU: 1 TOPS		
Working voltage	12V ~ 19V, current ≥ 3A		
RJ45	RJ45 terminal *1		
USB	USB2.0 terminal *2, USB3.0 terminal *2		
WIFI	WIFI 6 2.4GHz + 5GHz		
VVIFI	Bluetooth 5.2		
LPDDR4	Optional 8GB		
eMMC	Optional 64GB		
Light	State indicator light		
Light	Power indicator light		
Button	Power button		
Button	Reset button		
Analog mic	Connects to a microphone		
Tomporatura	Operating: 0°C to 40°C		
Temperature	Store: -20℃ to 60℃		
Humidity	Operating: 10% to 85% (non-condensing)		
Humidity	Store: 10% to 90% (non-condensing)		
Altitude Operating: 5,000 m.(max)			



4. Power Supply Parameter Description

Power	Requirement	12V ~ 19V
	Max Output Power	36W



5. List of Key Components

Num.	Substitut ematerial or not	Submember name	Submember	Unit dosage	Bit number
	Main material	SD Card holder	SOCKET,MICRO SD card holder,SMD,9PIN,14.5*16.1*0.98MM,ST EEL,90°,摩凯	1	CONU3
1	Substitute material	SD Card holder	SOCKET,MICRO SD card holder,SMD,13PIN,14.5*16.1*0.98MM,S TEEL,90°,WLSD-004A(改模后),WLCO (TY)	1	CONU3
	Substitute material	SD Card holder	SOCKET,MICRO SD card holder,SMD,13PIN,14.5*16.1*0.98MM,S TEEL,90°,130010722,SUOEN	1	CONU3
2	Main material	USB3.0 Hub	IC,USB3.0 Hub,SMD,QFN-76,VL817-Q7,C0 version, VLI	1	UU7
	Main material	DC-DC	IC,DC-DC,SMD,SOT23-6,2A,4.2V~18V, SM8102ABC,SILERGY (Shipped with high temperature test and SS TIME test report)	1	UY4
3	Substitute material	DC-DC	IC,DC-DC,SMD,SOT23-6,2A,4.5V~18V, SY8120B1ABC,SILERGY	1	UY4
	Substitute material	DC-DC	IC,DC-DC,SMD,SOT23-6,2A,4.2V~18V, SY8120IABC,SILERGY	1	UY4
4	Main material	Clock chip	IC,CLOCK,SMD,8-pin SOIC,PT7C4337WEX,PERICOM	1	UL12
5	Main material	FLASH	IC,FLASH,SMD,8-SOP,4Mb,KH25V4006 6M1I02,MXIC	1	UU8(need burned)
6	Main material	DC-DC	IC,DC-DC,SMD,QFN2.5*2.5-16,6A,4V~2 4V,SY8386ARHC,SILERGY	1	UW4
7	Main material	DC-DC	IC,DC-DC,SMD,SOIC8E,3A,4.5V~28V,M P1584EN,MPS	1	UW5
8	Main material	DC-DC	IC,DC-DC,SMD,QFN68-7X7,2.7V~5.5V, RK809-5,Rockchip	1	UW1
9	Main material	DC-DC	IC,DC-DC,SMD,WLCSP20,2.7V~5.5V,R K860-0,Rockchip	1	UW2
10	Main material	PHY chip	IC,PHY,SMD,QFN-40,10/100/1000M,YT 8531C,Motorcomm	1	UN1



11	Main COD	CODEC chip	IC,AUDIO	1	UA3	
	material	00B20 0mp	CODEC,SMD,QFN28,ES8388, Everest		U/AU	
12	Main	e·MMC chip	IC,e·MMC,SMD,64GB,FBGA153,BWCT	1	UL11	
12	material	e wiwe crip	ARV11X64G,BIWIN	'	(need burned)	
	Main	Main	IC,MAIN			
13	material	Main chip	CHIP,SMD,FCCSP565L,RK3566,B	1	UL1	
	materiai		version,Rockchip			
	Main		IC,LPDDR4X,SMD,			
14	material	LPDDR4X	TFBGA-200,64Gb,RS2G32LV4D4BDT-5	1	UD2	
	materiai	lateriai	3BT,Rayson			
	Main	Main USB2.0 Hub	IC,USB 2.0 4-PORT			
15	material		Hub,SMD,SSOP28,FE1.1s	1	UU5	
	materiai		(L) ,REACH,TERMINUS			
	Main	Power	IC,DISTRIBUTION		UU3,UU1,UU1	
	material	distribution	SWITCH,SMD,5.5V,2A,SOT23-5pin,SY6	4	1,UU12	
		Switch	280AAAC,SILERGY		1,0012	
	Substitute	Power	IC,DISTRIBUTION		UU3,UU1,UU1	
16	material	distribution	SWITCH,SMD,5.5V,2A,SOT23-5pin,SY6	4	1,UU12	
	materiai	Switch	280AAC,SILERGY		1,0012	
C.	Substitute	Power	IC,DISTRIBUTION		UU3,UU1,UU1	
	material		distribution SWITC	SWITCH,SMD,6V ,2.2A,SOT23-5pin,ET	4	1,UU12
materia		Switch	A6280S2F,ETA		1,0012	



6. WiFi Throughput Test Report

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		WiFi	吞吐量	l测试	WiFi T	hroughpu	ıt		
测试结论 Result		Pass				测试 Tester	安守强		
测试日期 Date		3月16日					审批 Checked	魏晓忠	
则试环境		温度. 26.4℃							
基本信息 Basic information		湿度, 45% 阶段; RD 产品型号; WB55860W 数量; 1 wifi與; RTL8852BU wifi與动 主板软件版本; 20230227202543							
测试设备 Test equip	ment	Bluetooth Spe	eaker,PC,#	·硕RT-AX8	6U,ZAPO-2	Z-2600,华为AX3	pro		
测试标准	Spec.	各模式结果符	守合规格要	求					
测试规格 Test data:	- Allendary								
模式		信道	测试值 Value		结果	規格	备往		
М	lode	Channel	上行 up	下行 down	Result	Spec.	note		
802.11g		CHI	26.4	23.3	Pass	>20Mbit/s	华硕R	T-AX86U	
		CH6	27	24.4	Pass		华硕区	T-AX86U	
		CH11	26	25	Pass		华硕R	T-AX86U	
	802.11n (20MHz) 2.4G	CHI	109	134	Pass	>90Mbit/s	ZAPO	-Z-2600	
		CH6	107	134	Pass		ZAPO	-Z-2600	
THE CASE		CHII	110	134	Pass		ZAPO	-Z-2600	
BT OFF	802.11n	CHI	214	285	Pass	>140Mbit/s	ZAPO	-Z-2600	
	(40MHz)	CH6	210	283	Pass		ZAPO	-Z-2600	
	2.4G	CHII	212	285	Pass		ZAPO)-Z-2600	
BTON	802.11n (20MHz) 2.4G	СНІ	110	137	Pass	>45Mbit/s	ZAPO	-Z-2600	
		CH6	110	129	Pass		ZAPO	-Z-2600	
		CH11	105	129	Pass		ZAPO	-Z-2600	
	802.11n (40MHz) 2.4G	CHI	206	265	Pass	>70Mbit/s	ZAPO	-Z-2600	
		CH6	209	263	Pass		ZAPO	-Z-2600	
		CHII	208	264	Pass	30-30 90000 55	ZAPO	-Z-2600	
- 100		CH149	266	293	Pass		华为	AX3pro	
1000	.11ac 0M)	CH153	270	294	Pass	>240Mbit/s	华为	AX3pro	



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模式	信道 Channel	测试值 Value		结果	规格	备注
Mode		上行 up	下行 down	Result	Spec.	note
000.00 NO.000	CH149	266	302	Pass		华为AX3pro
802.11ac (80M)	CH153	270	301	Pass	>240Mbit/s	华为AX3pro
(00.11)	CH157	268	303	Pass		华为AX3pro
20.00	CH149	263	304	Pass	>240 Mbit/s	华为AX3pro
802.11aX (40M)	CH153	265	303	Pass		华为AX3pro
(40.11)	CH157	264	299	Pass		华为AX3pro
	CH149	265	304	Pass	>240Mbit/s	华为AX3pro
802.11aX (80M)	CH153	264	301	Pass		华为AX3pro
(00.11)	CH157	270	300	Pass		华为AX3pro
	CH36	266	305	Pass		华为AX3pro
802.11aX 160/80/40/20)	CH48	264	303	Pass	>240Mbit/s	华为AX3pro
(100/00/40/20)	CH64	262	306	Pass		华为AX3pro

Please refer to the attachment for details:



WB55860W WiFi Throughput.pdf



7. Reliability Test Standards

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环境适应性测试报告

		产品型号	WB5 5860	W.	規格	OPS整机			
一 基本信息		教件版本	2023090416	65204	製试教量	4			
		獨試用屏	和试用 OPS. J转HIM1 OUT						
二 测试设备		高低温交变提生	S试验箱、电源、OPS.	式验箱、电源、OPS. J輔板、老化监控系统、HEMI分割器、显示器。					
		1 恒定器热试验	è						
三 测试项目		2 低温负荷试验	2 低温负荷试验3 高低温循环试验4 高温启动试验						
		3 高低温循环i							
		5 低温启动试验							
四 测试方法	与标准	 OPS整机通过至显示器。观明 本地播放466 	 输入电压:12V DC: OFS聚机通过OPS、J转板将输出信号转换成用DMI OUT,接到BDMI分割器。BDMI分割器输出HDMI信至显示器。 東联显示器的画面输出情况。 本地播放4600比视频。 测试时间与结果判定。 详见各个试验项目 						
五 试验前检	査								
检查项目	查项目			会格:	判定	各注			
光器件检查	无严重变形	、製紋、破損等不良	,則判断合格	Pas	is				
外观检查	样品外表无腐蚀、霜斑、钺层/漆层剥落、划瘕 、开裂、变形、液体或者灌注物渗漏以及溢出等 现象。文字符号标志清晰、结构件、主要元器件 与控制件应完整、无机械指伪			Par	55				
	测试整机功能是否正常								
功能检查	测试整机功	能是否正常		Par	K S				
功能检查 六 测试现场		能是否正常		Par	X.S.				
大調试現場	国片	能是香正常		Pas					
大 测试现场	图片	能是香正常		Par	18				
大 测试现场 七 试验中检 1、恒定避劫 (1). 温度: 60 T (2). 温度: 60 T (3). 时间: 24 H	查式验		死机、車自第不倉車						
大 测试现场 七 试验中检 1、恒定避劫 (1). 温度: 60 T (2). 温度: 60 T (3). 时间: 24 H	查式验		死机、重启等不良现5			备注			
大 獨试現場 七 试验中检 1、 恒定凝熱 以給条件。 (1). 温度: 60 Y (2). 温度: 60 Y (2). 湿度: 24 H 則定标准. 正常	查式验	无干扰、无噪点、无			th F.	· · · · · · · · · · · · · · · · · · ·			
大 测试现场 七 试验中检 1、恒定测热 (1)、温度: 607 (2)、时间: 248 则定标准,正常 编号	直 查 试验	无干扰、无噪点、无 老化起止时间		W ALCOHOLD	结果	备往			
大 测试现场 七 试验中检 1、恒定凝热 (3)。超度: 607 (3)。时间: 248 则定标准: 正常 编号 1号	直 查 试验	无干扰、无噪点、无		東 老代i Pas	结果 15.5 15.6	各往			



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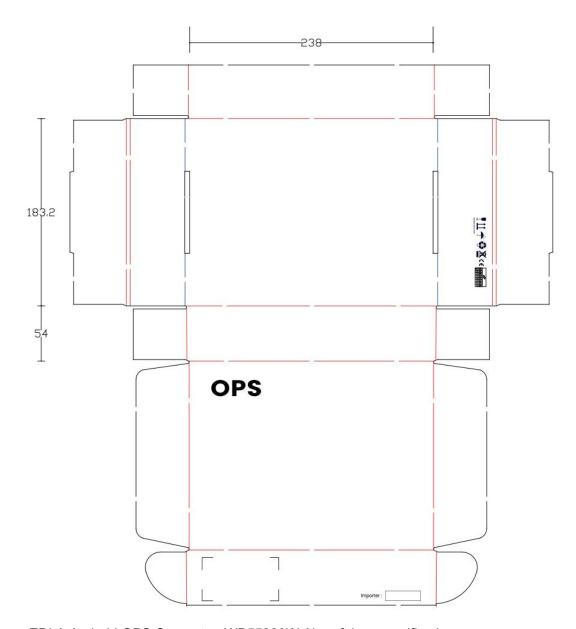


Please refer to the attachment for details:





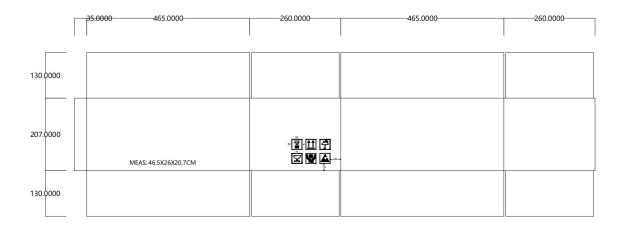
8. Packing and Transportation Instructions



EDLA Android OPS Computer_WB55860W Aircraft box specification:

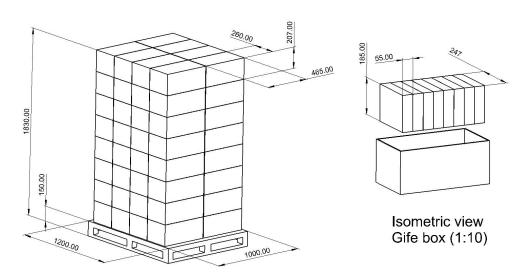
- 1) External size 247*185*55, unit: mm
- 2) Print black logo, comply with regulations MOSH-MOAH ink
- 3) The material conforms to ROHS
- 4) 250g Kraft paper +A9120, T=2mm, external size 247*185*55mm





EDLA Android OPS Computer WB55860W shipping box specifications:

- 1) Unit: External size 465*260*207, mm
- 2) Print black logo, comply with regulations MOSH-MOAH ink
- 3) The material conforms to ROHS
- 4) Material K=K, five layers of grams (160/90/70/90/126) T=6mm
- 5) Tolerance +5mm



Isometric view Pallet package(1:20) US 1000x1200 PalletSingle Retail box size: 247x185x55mm; Single 8-in-1 transportation carton size: 465X260X207mm; Max. g'ty per layer: 8Max; layer loading: 8Total Q'ty per US pallet: 512 pcs (64 cartons).



9. Safety and Certification Requirements

LANGO is not responsible for arranging this test.



10. Annex List

Project	Quantity
desiccant	1

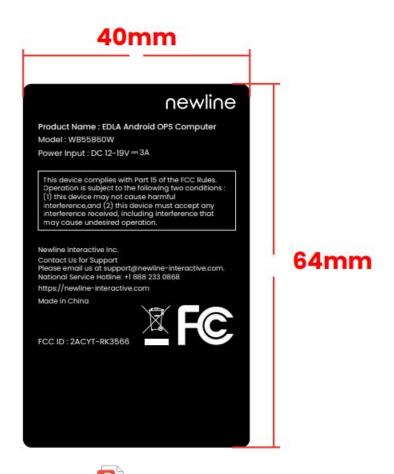


11. Commercialized Information



newline 3566 OPS盒子铭牌-202

Nameplate:

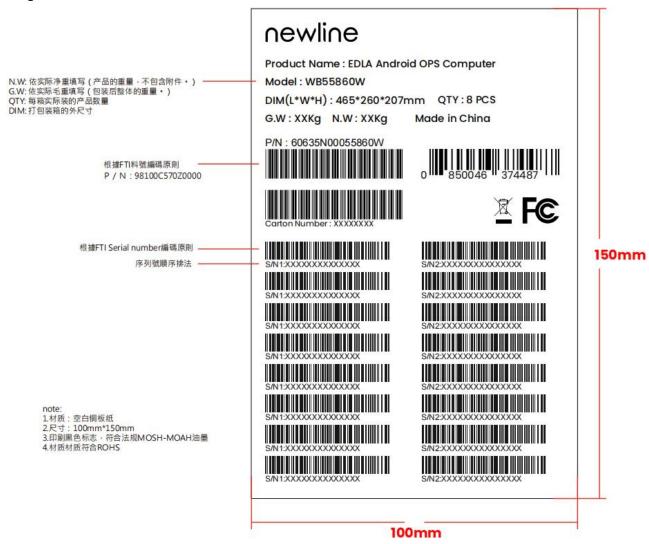


newline 3566 OPS盒子标签-202

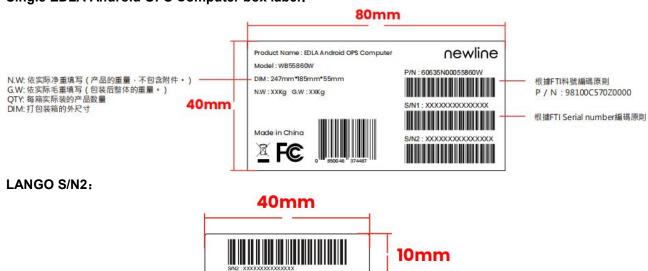
Label description summary:



Large box label:



Single EDLA Android OPS Computer box label:



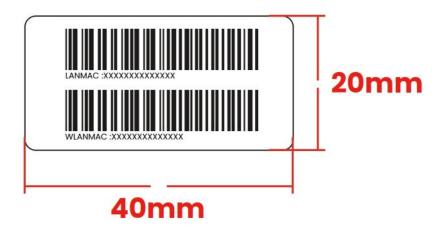
HiteVision S/N1:

Confidential documents, not to be disclosed and forwarded without authorization!





MAC:





12. Warning

Federal Communication Commission Interference Statement

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.

FCC Caution:

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.

Non-modification Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

	BT/BLE: 4.19dbi
Antonno	WiFi 2.4GHz: Antenna A:4.19dbi; Antenna B:4.19dbi
Antenna	WiFi 5GHz BAND1: Antenna A: 4.26dbi; Antenna B:4.26dbi
	BAND4: Antenna A:4.46dbi; Antenna B:4.46dbi