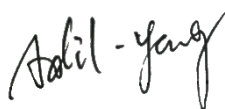


RF Exposure Report

Product name: Set Top Box
Trademark: sencore
Model no......: TAOMNIHUB-PLAY-STB-N
Series Model(s).....: N/A
FCC ID.....: 2BK67-Y4AOSP
Report No: C250605015-RF05
Test Standards: CFR47 FCC Part 2: Section 2.1093
CFR47 FCC Part 1: Section 1.1310
Applicant: CreNova Systems Co., Ltd.
Address of applicant: #1001 (10F) Metrogold, 140, Unjung-ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Republic of Korea, 13466
Manufacturer.....: N/A
Manufacturer Address.....: N/A
Date of Test Date.....: Jun 05, 2025 to Aug 07, 2025
Date of issue.: Aug 20, 2025
Test result.....: Compliance

Prepared By

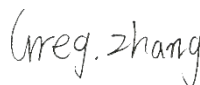
:



Adil Yang/Engineer

Reviewed By

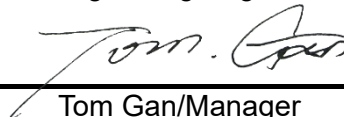
:



Greg Zhang/Engineer

Approved By

:



Tom Gan/Manager

The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of preparer, reviewer and approver. Any objections must be raised to CSIC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

Revision History

Rev.	Issue Date	Description	Note	Revised By
R00	Aug 20, 2025	Original Report	Valid	Adil Yang

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1 TEST SUMMARY

1.1 Test Facility

Shenzhen Central Standard International Center Co., Ltd. (CSIC)

Room 201, Building 1, Mogen Fashion Industrial Park, No. 10, Shilongzai Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen.

The test facility is recognized, certified or accredited by the following organizations:

CNAS Registration No.: L11671

FCC Registration No.: 0031378433 Designation Number: CN1317

IC CAB identifier: CN0051

A2LA Lab Cert. No.: 6426.01

2 GENERAL INFORMATION

2.1 General Description of EUT

EUT(Product Specifications)	
Product Name:	Set Top Box
Model:	TAOMNIHUB-PLAY-STB-N
Series Model(s):	N/A
Power supply:	AC/DC ADAPTER: Model: DCT12W120100US-AL Input: 100-240V~ 50/60Hz 0.3A max Output: 12.0V=1.0A Manufacturer: Zhuzhou Dachuan Electronic Technology Co., Ltd.
Hardware version:	OT908BC
Software version:	5.4.125-android11-2-g99a7c290d67c-dirty
Technical Specification of Bluetooth LE	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1 Mbps
Channel Separation:	2 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	2.00 dBi
Technical Specification of Bluetooth	
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number	79 channels
Channel Separation	1MHz
Antenna Type	PCB Antenna
Max. Antenna Gain	2.00 dBi.
WIFI-2.4G (RF Specifications)	
Supported type:	802.11 b/g/n(HT20)/n(HT40)
Modulation:	DSSS(DBPSK/DQPSK/CCK) for 802.11b OFDM(BPSK, QPSK, 16QAM, 64QAM) for 802.11g/n(HT20)/n(HT40)
Operation frequency:	2412MHz~2462MHz 2422MHz~2452MHz
Operation bandwidth:	20MHz, 40MHz
Channel number:	802.11b/g/n(HT20): 11 802.11n(HT40): 9
Antenna type:	ANT1/2: PCB

Antenna gain:	ANT1/2: 2.0 dBi.
WIFI-5G (RF Specifications)	
Operating Frequency	5150-5250MHz, 5725-5850MHz
Channel number:	5180-5240MHz, 7CHs, 802.11 a/n20/n40/ac20/ac40/ac80 5745-5825MHz, 7CHs, 802.11 a/n20/n40/ac20/ac40/ac80
Channel Spacing	20MHz, 40MHz, 80MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM)
Type of Product	Adaptive equipment and does not support non-adaptive mode: LBT based Detect and Avoid (load-based equipment)
Type of Product	Client Device without Radar Detection
TX Power Control (TPC)	Not Supported
Antenna Type	ANT1/2: PCB
Antenna Gain	ANT1/2: 5150MHz to 5250MHz: 2.0 dBi, 5725MHz to 5850MHz: 2.0 dBi

Remark: The above information and materials are provided by the Manufacturer.

3 Maximum Permissible Exposure (MPE)

3.1 RF Exposure

3.1.1 Limit

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio frequency (RF) radiation as specified in 1.1307 (b).

For FCC:

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm ²]
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	f/300
1500 - 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	f/1500
1500 - 100000	--	--	1.0

NOTE: f = Frequency in MHz

3.1.2 Friss Formula

Per KDB 447498 D01 v06, simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0 .

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

3.1.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

3.1.4 EUT Operating Conditions

EUT was enabled to transmit and receive at lowest, middle and highest channels.

3.1.5 Evaluation Result

1) tand-alone transmission MPE

For FCC

Test Results of RF Exposure Calculations for FCC, Stand-alone mode

Test Mode	Max. conducted power incl. tune-up (dBm)	Distance (cm)	MPE (mW/cm ²)	Threshold power (mW/cm ²)	Result
Bluetooth	3.57	20	0.0007	1.0	Pass
WIFI 2.4G	17.127	20	0.0163	1.0	Pass
WIFI 5G Band I	17.243	20	0.0167	1.0	Pass
WIFI 5G Band IV	20.599	20	0.0362	1.0	Pass

Test Results of RF Exposure Calculations for FCC, Simultaneous mode

Co-location Mode	Sum of the MPE ratios	Limit	Result
Bluetooth + WIFI 2.4G	$0.0007/1 + 0.0163/1 < 1.0$	1.0	Pass
Bluetooth + WIFI 5G	$0.0007/1 + 0.0362/1 < 1.0$	1.0	Pass

3.1.6 Conclusion

Therefore, the maximum calculations result of above are meet the requirement of Radio Frequency Exposure (MPE) limit.

*****THE END*****