

FCC Part 1.1310

RF Exposure Evaluation REPORT

For

FCC ID : 2AP48CT130HD

Model : CT1300-HD

Report Type : Original Report

Product Name : SynCast Go

Report Number : RXZ250425121SA02

Report Date : 2025-12-03

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**Facilities : The test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on
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Statement of Compliance

Applicant (Certification Holder)	Centron Design Co., Ltd.
	2F.-3, No.15, Ln. 360, Sec. 1, Neihu Rd., Neihu Dist., Taipei City 114, Taiwan
Brand (Trade) Name	Centron
Product (Equipment) Name	SynCast Go
Model Name	CT1300-HD
Series Model Name	GO CT13XX (XX: 0~9; A~Z) BXB OV-TX10 KLIK GO KB3XX (XX: 0~9) ShareGo HDXXX (XXX: 0~9; A~Z) AeroShare HDXXX (XXX 0~9; A~Z) SynXion GO HDXXX (XXX: 0~9; A~Z) DisplayPass HDXXX (XXX: 0~9; A~Z)
Model Discrepancy	Please refer to the difference declaration letter provided by the Applicant.

Measurement Procedures and Standards Used:

- ☒ FCC Part 2.1091
- ☒ FCC Part 1.1310

The measurement results in this report were performed at Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

Report Issued Date : 2025-12-03

Reviewed By : Anson Lu



Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ250425121	RXZ250425121SA02	2025.12.03	Original Report	Anson Lu

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Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

1. General Information

Product Description for Equipment under Test (EUT)

Product Name	SynCast Go
Frequency Range	IEEE 802.11a : 5180 ~ 5240 MHz IEEE 802.11n HT20 : 5180 ~ 5240 MHz
Tune-Up EIRP Power (dBm)	802.11a : 14.76 dBm 802.11n HT20 : 14.76 dBm
Modulation Technique	OFDM
Antenna Specification	PCB Antenna Gain : 1.757 dBi
Received Date	2025/06/05

*Note : *All measurement and test data in this report was gathered from production sample serial number:
RXZ250425121-2 (Assigned by BACL (New Taipei Laboratory)).*

2. RF Output Power Evaluation

Please refer to RF report No: RXZ250425121RF05

Test Modes	Channel	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)
802.11a	36	5180	12.02	0.36	12.38
	40	5200	12.16	0.36	12.52
	48	5240	11.61	0.36	11.97
802.11n HT20	36	5180	11.91	0.60	12.51
	40	5200	11.87	0.60	12.47
	48	5240	11.31	0.60	11.91

3. FCC §1.1310 - RF Exposure

Applicable Standard

According to subpart §1.1310 (a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in [§ 1.1307\(b\) of this part](#) within the frequency range of 100 kHz to 6 GHz (inclusive).

§1.1310 (d)(2) For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in [paragraph \(c\)\(1\)](#) of this section, may be used instead of whole-body SAR limits as set forth in [paragraphs \(a\)](#) through [\(c\)](#) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in [§ 1.1307\(b\) of this part](#), except for portable devices as defined in [§ 2.1093 of this chapter](#) as these evaluations shall be performed according to the SAR provisions in [§ 2.1093](#).

§1.1310 (d)(3) At operating frequencies above 6 GHz, the MPE limits listed in Table 1 in [paragraph \(c\)\(1\)](#) of this section shall be used in all cases to evaluate the environmental impact of human exposure to RF radiation as specified in [§ 1.1307\(b\) of this part](#).

For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be

used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

4. RF Exposure Evaluation Result

§ 1.1307(b)(3)(i)(c) PASS

Band /Mode	Freq. (MHz)	Max. Output Power (Avg/dBm)	Tune-up Power (Avg/dBm)	Ant Gain (dBi)	Distances (mm)	Tune-up Power (Avg/mW)	ERP (dBm)	ERP (mW)
UNII-1 802.11a	5180	12.38	13.00	1.757	200	19.95	12.607	18.23
	5200	12.52	13.00	1.757	200	19.95	12.607	18.23
	5240	11.97	13.00	1.757	200	19.95	12.607	18.23
UNII-1 802.11n HT20	5180	12.51	13.00	1.757	200	19.95	12.607	18.23
	5200	12.47	13.00	1.757	200	19.95	12.607	18.23
	5240	11.91	13.00	1.757	200	19.95	12.607	18.23

§ 1.1307(b)(3)(i)(A) method is not applicable.

§ 1.1307(b)(3)(i)(C)

Band/Mode	Freq.(MHz)	$\lambda/2\pi$ (mm)	ERP Limit (mW)	Result
UNII-1 802.11a	5180	9.22	768.00	exempt
	5200	9.18	768.00	exempt
	5240	9.11	768.00	exempt
UNII-1 802.11n HT20	5180	9.22	768.00	exempt
	5200	9.18	768.00	exempt
	5240	9.11	768.00	exempt

Note : The smaller the frequency, the worse the result

The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates

ERP (watts) is no more than the calculated value prescribed for that frequency

R must be at least $\lambda/2\pi$

λ is the free-space operating wavelength in meters

Note: The Tune-up output power was declared by the Applicant.

Only a single 5GHz transmitter; therefore, there is no issue with simultaneous transmission.

Result: Compliance.

***** END OF REPORT *****