

USER GUIDE

C500



C500

GNSS CONTROLLER USER GUIDE



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Main Description

Power Button: Press and hold for 3 seconds to power the device on or off. Press and hold for 12 seconds to reset it.

Directional Buttons: Use the up, down, left, and right buttons for navigation. A short press adjusts direction, while a long press on up/down adjusts system volume and a long press on left/right adjusts screen brightness.

Back Button: Returns you to the previous screen or the home screen.

App Button: Provides shortcuts for program-related functions.

Function Button: Customizable via software for specific functions.

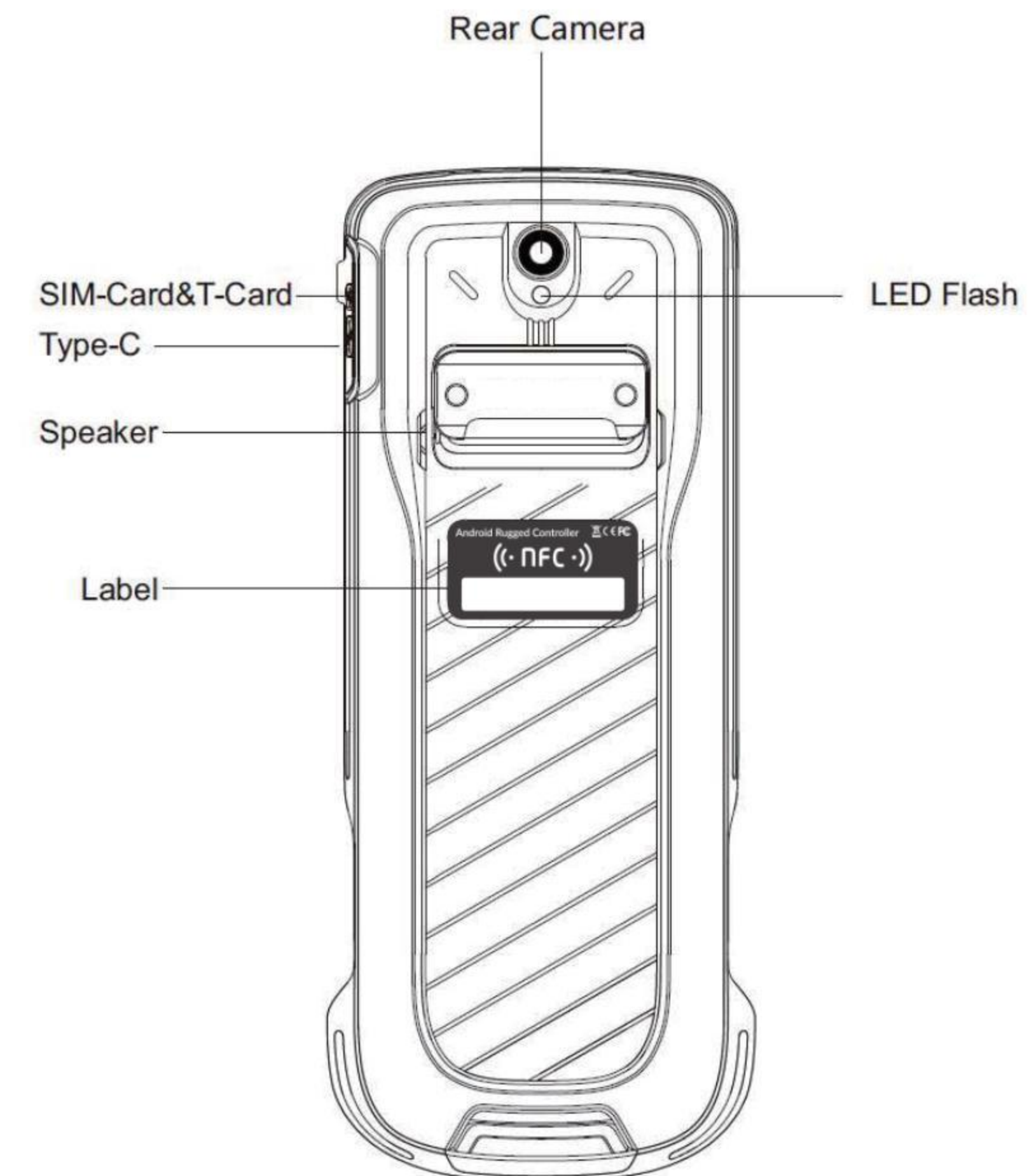
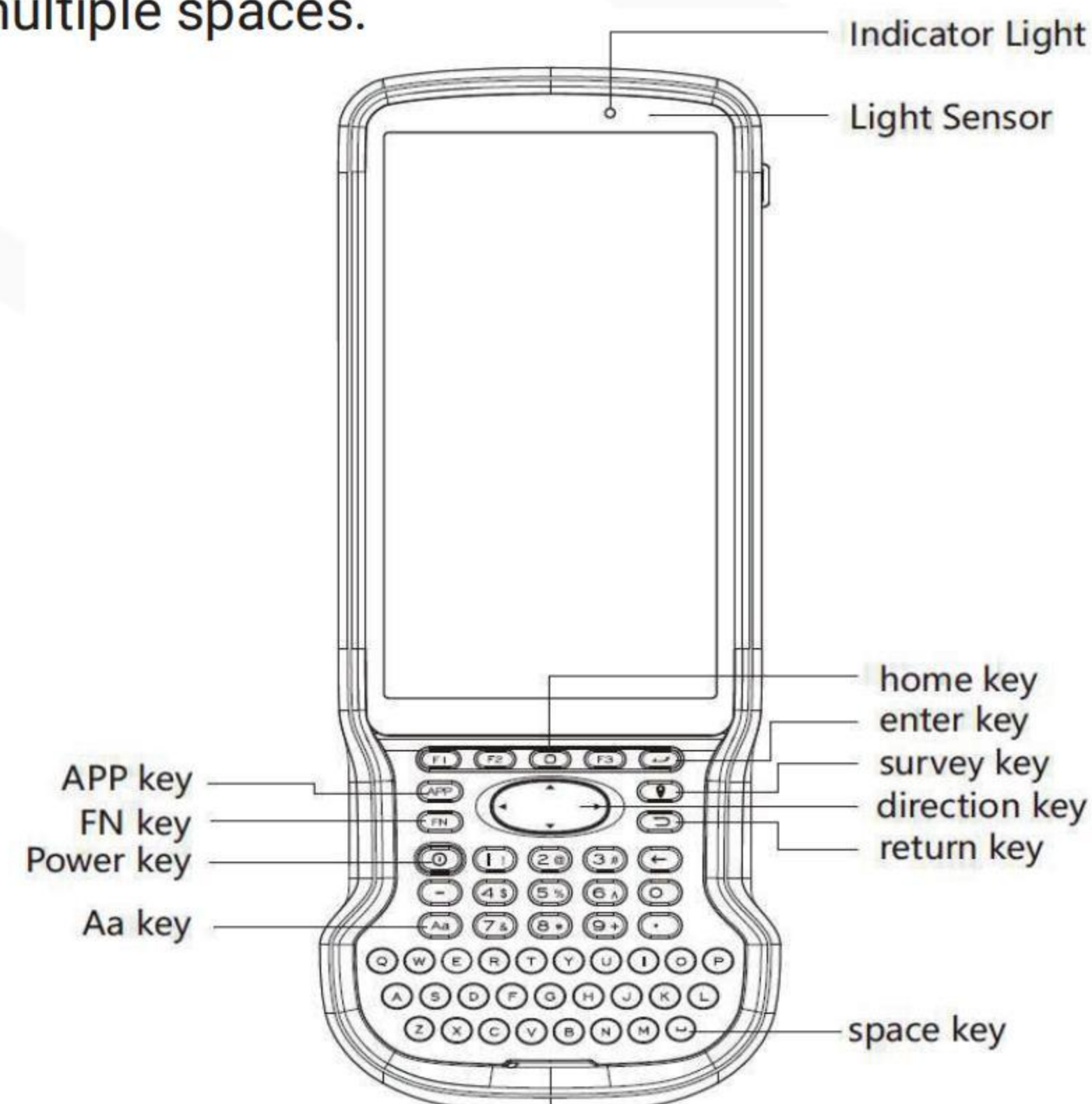
Aa Button: Toggles between uppercase and lowercase letters.

Home Button: Takes you back to the home screen.

Enter Button: Confirms selections.

Survey Button: Quickly initiates surveying or management functions in the survey app.

Space Button: Short press inserts a single space; long press inserts multiple spaces.



Battery charging

Use the travel charger.

Insert the small end plug of the USB cable into the host TYPE-C connector, insert the big end plug of the USB cable into the travel charging plug, and then plug the travel charging plug into the power socket for charging.

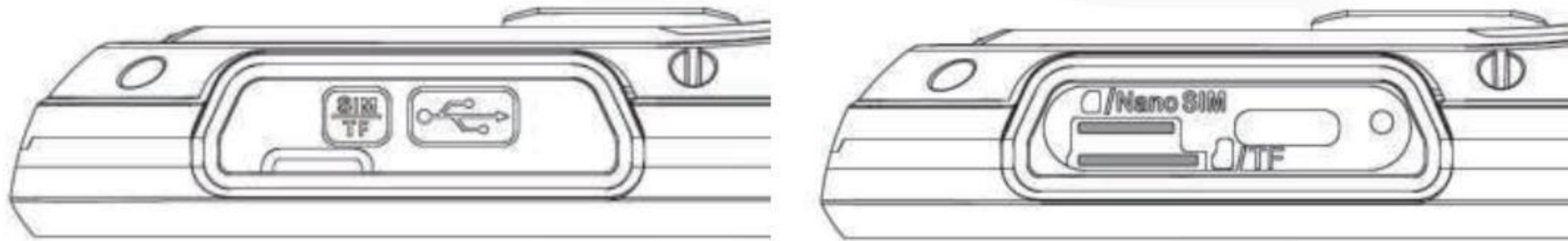
Charging with a USB cable.

Plug the small end plug of the USB cable into the host TYPE-C connector and plug the big end plug into the computer's USB port for charging.

Installment of SIM & Memory cards

This product uses a Nano SIM/UIM card. Push the Nano SIM card metal contacts all the way down into the slot, paying attention to the chamfering direction.

Push the metal contacts of the Micro SD memory card down into the slot, paying attention to the chamfering direction. Please note, if your SD card is exFAT, the controller will ask you to format the card, otherwise it will not be recognized. This request only occurs the first time a new SD exFAT card is inserted.



Note:

The plug is IP68 waterproof.

When the end user completes charging or inserting and removing the SIM card or memory card. This plug must be plugged back into the groove to keep the plug no higher than the casing around the plug, otherwise it will affect waterproof.

Switching

Press and hold the [Power Button] on the red bottom until the startup screen appears to power on the device. To power off, press and hold the [Power Button], select the power-off option, and then confirm. When the device is on, press the [Power Button] to turn off the screen and enter sleep mode. Press the [Power Button] again to wake up the screen, then swipe up to unlock it. The screen will automatically turn off and enter sleep mode after a period of inactivity.

Home screen operation

From the home screen, you can view device status and access applications. Swipe up on the screen to view all apps. At the top of the main screen is the status bar containing the notification area, the status area, and the display area. At the bottom is the system navigation bar, which allows you to easily return to the previous screen, return to the main screen, and switch applications using the buttons at the bottom of the screen.

The standard mode of the controller is touch mode, but it is possible to set the pen mode by changing the settings. Once the pen mode is set, the controller will remember this mode even when turned off and on again.

Notice

1. Some special places, such as airports, hospitals, gas stations and other places, do not allow the use of electronic equipment. Please comply with the rules and do not use this product in these places.
2. For your safety and the safety of others, please do not use this product while driving a vehicle.
3. In order to avoid potential safety problems, do not put this product near the vehicle's airbag.
4. For your safety, please do not use this product during thunderstorms.
5. Although this product is waterproof, do not leave this product for long periods of time in areas with water or moisture.
6. This product has an operating temperature range of $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$ and a storage temperature range of $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$. Extreme temperatures can affect the device's performance and service life.

- 7.The output power is 1 milliwatt to 5 milliwatts, Avoid direct eye contact with visible laser radiation.
- 8.Although the product has been tested to withstand harsh operating environments, do use the product in an improper manner.
- 9.Please do not disassemble this product. In case of failure, please send them to our authorized service centers to proceed with repairs.
- 10.After the device has reached the end of its service life, please discard it in a proper way to avoid environmental pollution.

Battery Instructions

- 1.This product uses a rechargeable lithium battery as a power source. When the power is low, please charge the battery. To maintain battery life, it is recommended to deplete the battery's power before charging.
- 2.When the battery charger is not in use, please remove it from the power supply. Do not connect the charger to the battery for more than one week. Excessive charging will shorten the battery life.
- 3.Temperature affects the battery charging limit. Therefore, the battery may need to be cooled or warmed up before charging.
- 4.Please use the battery for its original intended purpose to prevent short-circuiting the battery. A short circuit will occur when a conductive material connects the battery' s positive and negative terminals.
- 5.Do not use a battery that is damaged.

- 6.Placing the battery in extremely cold or hot places will lead to shortened battery life. Exposing the battery to extreme temperatures may cause the phone to malfunction, even if the battery is fully charged.
- 7.Do not put the battery in a fire. Please discard the battery in a proper manner or take the battery to a battery recycling station. Please dispose of waste batteries in accordance with local laws and regulations.

Frequencies and Emission Power for the Bluetooth/Wi-Fi/LTE/WCDAMA/GSM

Wi-Fi

RF Specification	
Operation Frequency	U-NII Band 1: 802.11a/n(HT20)/ac(VHT20): 5180MHz to 5240MHz; 802.11n(HT40)/ac(VHT40): 5190MHz to 5230MHz; 802.11ac(VHT80): 5210MHz; U-NII Band 2A: 802.11a/n(HT20)/ac(VHT20): 5260MHz to 5320MHz; 802.11n(HT40)/ac(VHT40): 5270MHz to 5310MHz; 802.11ac(VHT80): 5290MHz; U-NII Band 2C: 802.11a/n(HT20)/ac(VHT20): 5500MHz to 5700MHz; 802.11n(HT40)/ac(VHT40): 5510MHz to 5670MHz; 802.11ac(VHT80): 5530MHz to 5610MHz
Number of Channel	U-NII Band 1: 802.11a/n(HT20)/ac(VHT20): 4; 802.11n(HT40)/ac(VHT40): 2; 802.11ac(VHT80): 1; U-NII Band 2A: 802.11a/n(HT20)/ac(VHT20): 4;

	802.11n(HT40)/ac(VHT40): 2; 802.11ac(VHT80): 1; U-NII Band 2C: 802.11a/n(HT20)/ac(VHT20): 11; 802.11n(HT40)/ac(VHT40): 5; 802.11ac(VHT80): 2;
Modulation Type	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna Type	FPC Antenna
Antenna Gain(Peak)	WIFI 5.2G: 0.66dBi WIFI 5.3G: 0.66dBi WIFI 5.6G: 0.13dBi

RF Specification	
Operation Frequency	802.11a/n(HT20)/ac(VHT20): 5745MHz to 5825MHz; 802.11n(HT40)/ac(VHT40): 5755MHz to 5795MHz; 802.11ac(VHT80): 5775MHz;
Number of Channel	802.11a/n(HT20)/ac(VHT20): 5; 802.11n(HT40)/ac(VHT40): 2; 802.11ac(VHT80): 1;
Modulation Type	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna Type	FPC Antenna
Antenna Gain(Peak)	0.7dbi

Operation Band: U-NII Band 3					
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

RF Specification	
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2472MHz; 802.11n(HT40): 2422MHz to 2462MHz
Number of Channel	802.11b/g/n(HT20): 13; 802.11n(HT40): 9
Modulation Type	802.11b: DSSS(CCK, DBPSK, DQPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	FPC Antenna
Antenna Gain(Peak)	0.4dBi

Operation Band:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452	/	/
5	2432	10	2457	/	/

Bluetooth

RF Specification	
Operation Frequency	2402MHz to 2480MHz
Number of Channel	79
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	FPC Antenna
Antenna Gain(Peak)	0.4dBi

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

RF Specification

Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40
Modulation Type	:	GFSK
Antenna Type	:	FPC Antenna
Antenna Gain(Peak)	:	0.4dBi

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

LTE

RF Specification

Support Band	:	☒ FDD Band 1 ☒ FDD Band 3 ☒ FDD Band 7 ☒ FDD Band 8 ☒ FDD Band 20 ☒ FDD Band 28 ☒ TDD Band 34 ☒ TDD Band 38 ☒ TDD Band 40 ☐ TDD Band 42 ☐ TDD Band 43
Transmit Frequency	:	FDD Band1: 1920-1980 MHz FDD Band3: 1710-1785 MHz FDD Band7: 2500-2570 MHz FDD Band8: 880-915 MHz FDD Band20: 832-862 MHz FDD Band28: 703-748 MHz

	:	TDD Band34: 2010-2025MHz TDD Band38: 2570-2620 MHz TDD Band40: 2300-2400 MHz
Receive Frequency:	:	FDD Band1: 2110-2170 MHz FDD Band3: 1805-1880 MHz FDD Band7: 2620-2690 MHz FDD Band8: 925-960 MHz FDD Band20: 791-821 MHz FDD Band28: 758-803 MHz TDD Band34: 2010-2025MHz TDD Band38: 2570-2620 MHz TDD Band40: 2300-2400 MHz
Modulation Type	:	QPSK, 16QAM
Power Class	:	Class 3
Antenna Type	:	FPC Antenna

Antenna Gain(Peak)	:	FDD Band1: 0.88dBi FDD Band3: 0.88dBi FDD Band7: 0.88dBi FDD Band8: 0.88dBi FDD Band20: 0.88dBi FDD Band28: 0.88dBi TDD Band34: 0.88dBi TDD Band38: 0.88dBi TDD Band40: 0.88dBi
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Test frequency list:

E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 1	Transmitter	Lowest: 5 MHz	No. 18025 1922.5 MHz	No. 18300 1950 MHz	No. 18575 1977.5 MHz
		10 MHz	No. 18050 1925 MHz	No. 18300 1950 MHz	No. 18550 1975 MHz
		15 MHz	No. 18075 1927.5 MHz	No. 18300 1950 MHz	No. 18525 1972.5 MHz
		Highest: 20 MHz	No. 18100 1930 MHz	No. 18300 1950 MHz	No. 18500 1970 MHz
	Receiver	Lowest: 5 MHz	No. 25 2112.2 MHz	No. 300 2140 MHz	No. 575 2167.5 MHz
		10 MHz	No. 50 2115 MHz	No. 300 2140 MHz	No. 550 2165MHz
		15 MHz	No. 75 2117.5 MHz	No. 300 2140 MHz	No. 525 2162.5 MHz
		Highest: 20 MHz	No. 100 2120 MHz	No. 300 2140 MHz	No. 500 2160 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 3	Transmitter / Receiver	Lowest: 1.4 MHz	No. 19207 1710.7 MHz	No. 19575 1747.5 MHz	No. 19943 1784.3 MHz
		3 MHz	No. 19215 1711.5 MHz	No. 19575 1747.5 MHz	No. 19935 1783.5 MHz
		5 MHz	No. 19225 1712.5 MHz	No. 19575 1747.5 MHz	No. 19925 1782.5 MHz
		10 MHz	No. 19250 1715 MHz	No. 19575 1747.5 MHz	No. 19900 1780 MHz
		15 MHz	No. 19275 1717.5 MHz	No. 19575 1747.5 MHz	No. 19875 1777.5 MHz
		Highest: 20 MHz	No. 19300 1720 MHz	No. 19575 1747.5 MHz	No. 19850 1775 MHz
	Receiver	Lowest: 1.4 MHz	No. 1207 1805.7 MHz	No. 1575 1842.5 MHz	No. 1943 1879.3 MHz
		3 MHz	No. 1215 1806.5 MHz	No. 1575 1842.5 MHz	No. 1935 1878.5 MHz
		5 MHz	No. 1225 1807.5 MHz	No. 1575 1842.5 MHz	No. 1925 1877.5 MHz
		10 MHz	No. 1250 1810 MHz	No. 1575 1842.5 MHz	No. 1900 1875 MHz
		15 MHz	No. 1275 1812.5 MHz	No. 1575 1842.5 MHz	No. 1875 1872.5 MHz
		Highest: 20 MHz	No. 1300 1815 MHz	No. 1575 1842.5 MHz	No. 1850 1870 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 7	Transmitter	Lowest: 5 MHz	No. 20775 2502.5 MHz	No. 21100 2535 MHz	No. 21425 2567.5 MHz

E-UTRA Band	Receiver	10 MHz	No. 20800 2505 MHz	No. 21100 2535 MHz	No. 21400 2565 MHz
		15 MHz	No. 20825 2507.5 MHz	No. 21100 2535 MHz	No. 21375 2562.5 MHz
		Highest: 20 MHz	No. 20850 2510 MHz	No. 21100 2535 MHz	No. 21350 2560 MHz
		Lowest: 5 MHz	No. 2775 2622.5 MHz	No. 3100 2655 MHz	No. 3425 2687.5 MHz
		10 MHz	No. 2800 2625 MHz	No. 3100 2655 MHz	No. 3400 2685MHz
		15 MHz	No. 2825 2627.5 MHz	No. 3100 2655 MHz	No. 3375 2682.5 MHz
		Highest: 20 MHz	No. 2850 2630 MHz	No. 3100 2655 MHz	No. 3350 2680 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 8	Transmitter	Lowest: 1.4 MHz	No. 21457 880.7 MHz	No. 21625 897.5 MHz	No. 21793 914.3 MHz
		3 MHz	No. 21465 881.5	No. 21625 897.5 MHz	No. 21785 913.5
		5 MHz	No. 21475 882.5 MHz	No. 21625 897.5 MHz	No. 21775 912.5 MHz
		Highest: 10 MHz	No. 21500 885 MHz	No. 21625 897.5 MHz	No. 21750 910 MHz
	Receiver	Lowest: 1.4 MHz	No. 3457 925.7 MHz	No. 3625 942.5 MHz	No. 3793 959.3 MHz
		3 MHz	No. 3465 926.5 MHz	No. 3625 942.5 MHz	No. 3785 958.5 MHz
		5 MHz	No. 3475 927.5 MHz	No. 3625 942.5 MHz	No. 3775 957.5 MHz
		Highest: 10 MHz	No. 3500 930 MHz	No. 3625 942.5 MHz	No. 3750 955 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 20	Transmitter	Lowest: 5 MHz	No. 24175 834.5 MHz	No. 24300 847 MHz	No. 24425 859.5 MHz
		10 MHz	No. 24200 837 MHz	No. 24300 847 MHz	No. 24400 857 MHz
		15 MHz	No. 24225 839.5 MHz	No. 24300 847 MHz	No. 24375 854.5 MHz
		Highest: 20 MHz	No. 24250 842 MHz	No. 24300 847 MHz	No. 24350 852 MHz
	Receiver	Lowest: 5 MHz	No. 6175 793.5 MHz	No. 6300 806 MHz	No. 6425 818.5 MHz
		10 MHz	No. 6200 796 MHz	No. 6300 806 MHz	No. 6400 816MHz
		15 MHz	No. 6225 798.5 MHz	No. 6300 806 MHz	No. 6375 813.5 MHz
		Highest: 20 MHz	No. 6250 801 MHz	No. 6300 806 MHz	No. 6350 811 MHz

E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 28 (at lower)	Transmitter	Lowest: 3 MHz	No. 27225 704.5 MHz	No. 27360 718 MHz	No. 27495 731.5 MHz
		5 MHz	No. 27235 705.5 MHz	No. 27360 718 MHz	No. 27485 730.5 MHz
		10 MHz	No. 27260 708 MHz	No. 27360 718 MHz	No. 27460 728 MHz
		15 MHz	No. 27285 710.5 MHz	No. 27360 718 MHz	No. 27435 725.5 MHz
		Highest: 20 MHz	No. 27310 713 MHz	No. 27360 718 MHz	No. 27410 723 MHz
	Receiver	Lowest: 3 MHz	No. 9225 759.5 MHz	No. 9360 773 MHz	No. 9495 786.5 MHz
		Lowest: 5 MHz	No. 9235 760.5 MHz	No. 9360 773 MHz	No. 9485 785.5 MHz
		10 MHz	No. 9260 763 MHz	No. 9360 773 MHz	No. 9460 783 MHz
		15 MHz	No. 9285 765.5 MHz	No. 9360 773 MHz	No. 9435 780.5 MHz
		Highest: 20 MHz	No. 9310 768 MHz	No. 9360 773 MHz	No. 9410 778 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 28 (at upper)	Transmitter	Lowest: 3 MHz	No. 27375 719.5 MHz	No. 27510 733 MHz	No. 27645 746.5 MHz
		5 MHz	No. 27385 720.5 MHz	No. 27510 733 MHz	No. 27635 745.5 MHz
		10 MHz	No. 27410 723 MHz	No. 27510 733 MHz	No. 27610 743 MHz
		15 MHz	No. 27435 725.5 MHz	No. 27510 733 MHz	No. 27585 740.5 MHz
		Highest: 20 MHz	No. 27460 728 MHz	No. 27510 733 MHz	No. 27560 738 MHz
	Receiver	Lowest: 3 MHz	No. 9375 774.5 MHz	No. 9510 788 MHz	No. 9645 801.5 MHz
		Lowest: 5 MHz	No. 9385 775.5 MHz	No. 9510 788 MHz	No. 9635 800.5 MHz
		10 MHz	No. 9410 778 MHz	No. 9510 788 MHz	No. 9610 798 MHz
		15 MHz	No. 9435 780.5 MHz	No. 9510 788 MHz	No. 9585 795.5 MHz
		Highest: 20 MHz	No. 9460 783 MHz	No. 9510 788 MHz	No. 9560 793 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 38	Transmitter/ Receiver	Lowest: 5 MHz	No. 37775 2572.5 MHz	No. 38000 2595 MHz	No. 38225 2617.5 MHz
		10 MHz	No. 37800 2575 MHz	No. 38000 2595 MHz	No. 38200 2615 MHz

		15 MHz	No. 37825 2578.5 MHz	No. 38000 2595 MHz	No. 38175 2612.5 MHz
		Highest: 20 MHz	No. 37850 2580 MHz	No. 38000 2595 MHz	No. 38150 2610 MHz
E-UTRA Band	Transmitter / Receiver	Channel Bandwidth	Frequencies under Test		
			Lowest range (L)	Middle range (M)	Highest range (H)
Band 40	Transmitter/ Receiver	Lowest: 5 MHz	No. 38675 2302.5 MHz	No. 39150 2350 MHz	No. 39625 2397.5 MHz
		10 MHz	No. 38700 2305 MHz	No. 39150 2350 MHz	No. 39600 2395 MHz
		15 MHz	No. 38725 2307.5 MHz	No. 39150 2350 MHz	No. 39575 2392.5 MHz
		Highest: 20 MHz	No. 38750 2310 MHz	No. 39150 2350 MHz	No. 39550 2390 MHz
E-UTRA Band	Transmitter / Receiver	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Band 34	Transmitter/ Receiver	Low Range	5	36225	2012.5
			10	36250	2015
			15	36275	2017.5
		Mid Range	5/10/15	36275	2017.5
			5	36325	2022.5
			10	36300	2020
		High Range	15	36275	2017.5

WCDMA

RF Specification	
Support Band	: ☒ WCDMA Band I ☒ WCDMA Band VIII
Transmit Frequency	: WCDMA Band I: 1920-1980 MHz WCDMA Band VIII: 880-915 MHz
Receive Frequency	: WCDMA Band I: 2110-2170 MHz WCDMA Band VIII: 925-960 MHz
Modulation Type	: QPSK
Power Class	: Class 3
Antenna Type	: FPC Antenna
Antenna Gain(Peak):	: WCDMA Band I: 0.88dBi WCDMA Band VIII: 0.88dBi

1.5. Description of Test Mode

Test Mode	LCH	MCH	HCH
WCDMA2100	1922.6 MHz	1950 MHz	1977.4 MHz
WCDMA900	882.6 MHz	897.6 MHz	912.4 MHz

GSM, GPRS, EGPRS

RF Specification	
Support Band	: ☑GSM900 ☑DCS1800
Support Network	: GSM, GPRS, EGPRS
Transmit Frequency	: GSM900: 880 -915 MHz DCS1800: 1710 -1785 MHz
Receive Frequency	: GSM900: 935 - 960 MHz DCS1800: 1805-1880 MHz
Modulation Type	: GMSK for GSM/GPRS 8PSK for EGPRS

GPRS Multislot Class	: 12
EGPRS Multislot Class	: 12
Antenna Type	: FPC Antenna
Antenna Gain(Peak)	: GSM900: 0.88dBi DCS1800: 0.88dBi

EGPRS900(GMSK)					
Test style	Test condition	Channel (MHz)	Input level(dBm)	Reading (%)	Limit (%)
PDTCH/CS-1	static	902.6	-104	1.19	10
	TUhigh (no FH)		-102.5	1.06	
	TUhigh (ideal FH)		-103	1.30	
	RA (no FH)		-103	1.34	
	HT (no FH)		-102	1.25	
PDTCH/CS-2	static	902.6	-104	0.90	10
	TUhigh (no FH)		-100.5	1.32	
	TUhigh (ideal FH)		-101	1.52	
	RA (no FH)		-100.5	1.42	
	HT (no FH)		-100	0.46	
PDTCH/CS-3	static	902.6	-104	1.22	10
	TUhigh (no FH)		-96.5	0.97	
	TUhigh (ideal FH)		-96.5	0.65	
	RA (no FH)		-92.5	1.28	
	HT (no FH)		-95.5	0.51	
PDTCH/CS-4	static	902.6	-101.5	0.95	10
	TUhigh (no FH)		-91	0.91	
	TUhigh (ideal FH)		-91	0.83	

EGPRS900(8-PSK)					
Test style	Test condition	Channel (MHz)	Input level(dBm)	Reading (%)	Limit (%)
PDTCH/CS-5	static	902.6	-98	0.57	10
	TUhigh (no FH)		-93	1.07	
	TUhigh (ideal FH)		-94	1.41	
	RA (no FH)		-93	1.37	
	HT (no FH)		-92	1.06	
PDTCH/CS-6	static	902.6	-96	0.99	10
	TUhigh (no FH)		-91	0.88	
	TUhigh (ideal FH)		-91.5	0.81	
	RA (no FH)		-88	1.21	
	HT (no FH)		-89	1.44	
PDTCH/CS-7	static	902.6	-93	0.98	10
	TUhigh (no FH)		-84	0.65	
	TUhigh (ideal FH)		-84	1.20	
	HT (no FH)		-83	0.54	
PDTCH/CS-8	static	902.6	-90.5	0.89	10
	TUhigh (no FH)		-83	0.46	
	TUhigh (ideal FH)		-83	1.26	
PDTCH/CS-9	static	902.6	-86	0.83	10
	TUhigh (no FH)		-78.5	0.57	
	TUhigh (ideal FH)		-78.5	1.07	

EGPRS1800(GMSK)					
Test style	Test condition	Channel (MHz)	Input level(dBm)	Reading (%)	Limit (%)
PDTCH/CS-1	static	1747.4	-104	0.81	10
	TUhigh (no FH)		-102.5	1.27	
	TUhigh (ideal FH)		-103	1.44	
	RA (no FH)		-103	0.51	
	HT (no FH)		-101.5	1.47	
PDTCH/CS-2	static	1747.4	-104	1.33	10
	TUhigh (no FH)		-100.5	1.29	
	TUhigh (ideal FH)		-101	1.18	
	RA (no FH)		-100.5	0.71	
	HT (no FH)		-99.5	0.74	
PDTCH/CS-3	static	1747.4	-104	0.76	10
	TUhigh (no FH)		-96.5	0.66	
	TUhigh (ideal FH)		-96.5	1.29	
	RA (no FH)		-92.5	0.91	
	HT (no FH)		-94.5	0.61	
PDTCH/CS-4	static	1747.4	-101.5	0.84	10
	TUhigh (no FH)		-90.5	1.30	
	TUhigh (ideal FH)		-90.5	1.46	

EGPRS1800(8-PSK)					
Test style	Test condition	Channel (MHz)	Input level(dBm)	Reading (%)	Limit (%)
PDTCH/CS-5	static	1747.4	-98	0.58	10
	TUhigh (no FH)		-93.5	1.58	
	TUhigh (ideal FH)		-93.5	1.06	
	RA (no FH)		-93	1.35	
	HT (no FH)		-89.5	0.79	
PDTCH/CS-6	static	1747.4	-96	0.78	10
	TUhigh (no FH)		-91	1.06	
	TUhigh (ideal FH)		-91	1.43	
	RA (no FH)		-88	1.14	
	HT (no FH)		-83.5	1.05	
PDTCH/CS-7	static	1747.4	-93	0.88	10
	TUhigh (no FH)		-81.5	0.72	
	TUhigh (ideal FH)		-80.5	1.26	
PDTCH/CS-8	static	1747.4	-90.5	0.84	10
	TUhigh (no FH)		-80	1.03	
	TUhigh (ideal FH)		-80	0.69	
PDTCH/CS-9	static	1747.4	-86	0.60	10