KR1518（Orbit Recast）Operation Description

This product controlled by the MCU TX8C120W and ARM CPU RK3528A. When the power button is pressed, the MCU controls the ARM CPU system to power on. After power on, the system will detect the connected devices and communicate with each other for control.

1. IC：AP6275S, crystal oscillator:37.4MHz
2. 2.4G WIFI

Product Description	:	Operation Frequency:	2412MHz~2462MHz
		Number of Channel:	11 channels
		Antenna Gain:	1.96dBi FPC Antenna 1 1.96dBi FPC Antenna 2
		Modulation Type:	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK,16QAM, 64QAM)
Power Rating	:	AC Adapter (Model: JHD-AP024U-120200BA-A) Input: 100-240V~50/60Hz, 0.55A Output: 12V⎓2A DC 3.8V 9800mAh Rechargeable Li-ion battery	
Software Version	:	RecastV100	
Hardware Version	:	MB_V1.2	

3. 5G WIFI

Product Description	:	Operation Frequency: U-NII-1: 5180MHz~5240MHz			
		Antenna Designation:	FPC Ant.	Gain-Ant.1	Gain-Ant.2
			U-NII-1	3.15dBi	3.15dBi
		Modulation Type:	802.11a: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK,16QAM, 64QAM, 256QAM, 1024QAM)		
Power Rating	:	AC Adapter (Model: JHD-AP024U-120200BA-A) Input: 100-240V~50/60Hz, 0.55A Output: 12V⎓2A DC 3.8V 9800mAh Rechargeable Li-ion battery			
Software Version	:	RecastV100			
Hardware Version	:	MB_V1.2			

Worst MPE Result							
Test Mode	**Antenna**	**Conducted Power(max) (dBm)**	**Turn-up Power (dB)**	**Max tune up power (dBm) [P]**	**Max. ANT Gain (dBi) [G]**	**Distance (cm) [R]**	**Power Density (mW/cm^2) [S]**
2.4G b	Ant1	16.97	16±1	17	1.96	20	0.01566
	Ant2	16.45	16±1	17	1.96	20	0.01566
2.4G g	Ant1	14.26	14±1	15	1.96	20	0.00988
	Ant2	13.78	14±1	15	1.96	20	0.00988
2.4G n20	Ant1	13.98	13±1	14	1.96	20	0.00785
	Ant2	12.97	13±1	14	1.96	20	0.00785
2.4G n40	Ant1	13.60	13±1	14	1.96	20	0.00785
	Ant2	12.20	13±1	14	1.96	20	0.00785
5G a	Ant1	16.50	16±1	17	3.15	20	0.02059
	Ant2	16.45	16±1	17	3.15	20	0.02059
5G n20	Ant1	16.59	16±1	17	3.15	20	0.02059
	Ant2	16.56	16±1	17	3.15	20	0.02059
5G n40	Ant1	12.93	13±1	14	3.15	20	0.01032
	Ant2	13.29*	13±1	14	3.15	20	0.01032
5G ac20	Ant1	13.49	14±1	15	3.15	20	0.01299
	Ant2	14.00	14±1	15	3.15	20	0.01299
5G ac40	Ant1	13.06	14±1	15	3.15	20	0.01299
	Ant2	13.41	14±1	15	3.15	20	0.01299
5G ac80	Ant1	12.16	12±1	13	3.15	20	0.00820
	Ant2	12.93	12±1	13	3.15	20	0.00820
5G ax20	Ant1	11.84	12±1	13	3.15	20	0.00820
	Ant2	12.45	12±1	13	3.15	20	0.00820
5G ax40	Ant1	11.24	12±1	13	3.15	20	0.00820
	Ant2	11.68	12±1	13	3.15	20	0.00820
5G ax80	Ant1	10.59	11±1	12	3.15	20	0.00651
	Ant2	11.54	11±1	12	3.15	20	0.00651
Note: The antenna gain used max. antenna gain							