1. Specification

1-1 General

Frequency Range	Digital Mode	
Transmitter	: 824.64 ~ 848.37 MHz	
Receiver	: 869.64 ~ 893.37 MHz	
Channel Spacing	: 1.23 MHz	30 kHz
Number of Channels	: 20 FA	832 CHs
Duplex Spacing	: 45 MHz	
Frequency Stability	: ± 2.5 ppm (−22 ℉ ~ +140 ℉ : − 30 ℃ ~ + 60 ℃)	
Operating Temperature	: − 4 ℉ ~ 122 ℉ (− 20 ℃ ~ +50 ℃)	
Operating Voltage		
Battery	: 5.0V DC (± 10 %)	
Adapter	: 11.0V DC (± 20 %)	
Size and Weight		
w/ battery	:218 × 210 × 73 mm 1183 gr	

Operating Time		w/ battery
Digital mode	Standby Time (slot index 2)	51~ 75 hours
	Talk Time	6 hours

1-2 Digital Mode

Waveform Quality	: above 0.944
Time Reference	: within ± 1uS
RX Sensitivity	: − 104 dBm, FER = within 0.5%
Dynamic Range	: − 104 dBm ~ − 25 dBm, FER = within 0.5%
TX Output Power	: Maximum 320 mW (25dBm)
TX Frequency Deviation	: within ± 300 Hz
Occupied Band Width	: 1.32 MHz
TX Conducted Spurious Emissions	: 900 kHz below − 42 dBc / 30 kHz : 1.98 MHz below − 54 dBc / 30 kHz
Minimum TX Power Control	: below − 50 dBm
Open Loop Power Control	: − 25 dBm : − 57.0 dBm ~ − 38.5 dBm − 65 dBm : − 17.5 dBm ~ + 1.5 dBm − 104 dBm : + 18.0 dBm ~ + 30.0 dBm
Standby Output Power	: below − 61 dBm
Closed Loop TX Power Control Range	: Test 1 beyond ± 24 dB Test 2 0 mS ~ 2.5 mS Test 3 beyond ± 24 dB Test 4 beyond ± 24 dB Test 5 beyond ± 24 dB

MSC Transmitter Frequency

FA NO.	CH. NO.	CENTER FREQUENCY	FA NO.	CH. NO.	CENTER FREQUENCY
1	1011	824.640MHz	11	404	837.120MHz
2	29	825.870MHz	12	445	838.350MHz
3	70	827.100MHz	13	486	839.580MHz
4	111	828.330MHz	14	527	840.810MHz
5	152	829.560MHz	15	568	842.040MHz
6	193	830.790MHz	16	609	843.270MHz
7	234	832.020MHz	17	650	844.270MHz
8	275	833.250MHz	18	697	845.910MHz
9	316	834.480MHz	19	738	847.140MHz
10	363	835.890MHz	20	779	848.370MHz

MSC Receiver Frequency

FA NO.	CH. NO.	CENTER FREQUENCY	FA NO.	CH. NO.	CENTER FREQUENCY
1	1011	869.640MHz	11	404	882.120MHz
2	29	870.870MHz	12	445	883.350MHz
3	70	872.100MHz	13	486	884.580MHz
4	111	873.330MHz	14	527	885.810MHz
5	152	874.560MHz	15	568	887.040MHz
6	193	875.790MHz	16	609	888.270MHz
7	234	877.020MHz	17	650	889.270MHz
8	275	878.250MHz	18	697	890.910MHz
9	316	879.480MHz	19	738	892.140MHz
10	363	880.890MHz	20	779	893.370MHz