1. SPECIFICATION

1. GENERAL

Freqency Range Transmitter Receiver	CDMA MODE 824.64 ~ 848.37 MHz 869.64 ~ 893.37 MHz	ANALOG MODE 824 ~ 849 MHz 869 ~ 894 MHz
Channel Spacing	1.23 MHz	30 KHz
Number of Channels	20 FA	832 CHs
Duplex Spacing	45 MHz	
Frequency Stability	¡¾300Hz	¡¾2.5ppm
Operating Temperature	-20¡É ~ +50 ¡É (-4 ~ +122 ¢µ)	
Operating Voltage HHP	3.6V DC (¡¾10%)	
Size and Weight Including slim battery Including standard battery	80 x 42 x 22mm (slim) , 80 x 42 x 24mm (standard) 93g 116g	
Operating Time Standby Time Talk Time	CDMA MODE 40 ~ 100hours (with slim battery) 70 ~ 170 hours (with standard battery) 150 min (with slim battery) 250 min (with standard battery)	ANALOG MODE 4 ~ 5 hours (with slim battery) 8 ~ 9 hours (with standard battery) about 45 min (with slim battery) about 100 min (with standard battery)

RECEIVER

De-Emphasis	-6dB/OCT within 0.3 3KHZ
Expandor Expandor Rate Attack Time Recovery Time Reference Input	1 : 2 within 3ms within 13.5ms output level to a 1000Hz tone from a carrier within ¡¾ 2.9KHz peak frequency deviation
sensitivity	12dB SINAD/-116dBm
Intermodulation Spurious Response Attenuation	above 65 dB
RSSI Range	above 60 dB
Protection Against Spurious Response Interface	above 60 dB
In Band Conducted Spurious Emission Transmit Band Receive Band	 below -60dBm below -80dBm
Out of Band Conducted Spurious Emission	below -47dBm
Radiated Spurious Emission	
Frequency Range 25 ~ 70 MHz 70 ~ 130 MHz 130 ~ 174 MHz 174 ~ 260 MHz 260 ~ 470 MHz 470 ~ 1 GHz	Maximum Allowable EIRP -45dBm -41dBm -41 ~ -32dBm -32dBm -32 ~ -26dBm -21dBm

2. FM MODE

TRANSMITTER

RF output power	0.6W (+2/-4dB)
Carrier ON/OFF condition "ON" Condition "OFF" Condition	 within ¡¾3dB of specification output(in 2ms) below -60dBm (2ms)
Compressor Compression Rate Attack Time Recovery Time Reference Input	 2 : 1 3ms 13.5ms Input level for producing a nominal ¡¾2.9KHz peak frequency deviation of transmitted carrier
Preamphasis	6dB/OCT within 0.3 ~ 3KHz
Maximum Frequency Deviation R3 of G3 Supervisory Audio Tone Signaling Tone Wideband Data	 ¡¾12KHz ¡¾2KHz ¡¾8KHz ¡¾8KHz
Post Deviation limiter Filter 3.0 ~ 5.9KHz 5.9 ~ 6.1KHz 6.1 ~ 15KHz Over 15KHz	 above 40Log(F/3000)dB above 35dB above 40Log(F/3000)dB above 28dB
Spectrum Noise Surpreion For all modulation f_o + 20KHz ~ f_o + 45KHz For modulation by voice and SAT f_o + 45KHz For modulation by WBD (without SAT) and ST(with SAT) f_o + 45KHz ~ f_o + 60KHz f_o + 60KHz ~ f_o + 90KHz f_o + 90KHz ~ 2f_o	 above 26dB above 63 + 10Log(PY) dB above 45dB above 65dB above 63 + 10Log(PY)dB (where f_o = carrier frequency PY = mean output power in watts)
Harmonic and conduct Spurious Emission	below 43 + 10Log(PY)dB

CDMA MODE

Waveform Quality	above 0.944
Time Reference	within ¡¾1us
Rx Sensitivity and Dynamic Range	-104dBm , FER=within 0.5% -104dBm ~ -25dBm, FER=within 0.5%
Tx Output Power	Maximum 320mW (25dBm)
Tx Frequency Deviation	within ¡¾300Hz
Occupied Band Width	1.32MHz
Tx Conducted Spurious Emission	900KHz : below -42dBc / 30KHz 1.98MHz: below -54dBc / 30KHz
Minimum Tx Power Control	below -50dBm
Open Loop Power Control	-25dBm : -57.0dBm ~ -38.5dBm -65dBm : -17.5dBm ~ + 1.5dBm -104dBm : +18.0dBm ~ +30.0dBm
Standby Output Power	below -61dBm
Colsed Loop Tx Power Control Range	Test1 : above ¡¾24dB Test2 : 0ms ~ 2.5ms Test3 : above ¡¾24dB Test4 : above ¡¾24dB Test5 : above ¡¾24dB

2. FREQUENCY RANGE

Transmitter Frequency		
FA NO.	CH NO.	Center Frequency
1	1011	824.64MHz
2	29	825.87MHz
3	70	827.10MHz
4	111	828.33MHz
5	152	829.56MHz
6	193	830.79MHz
7	234	832.02MHz
8	275	833.25MHz
9	316	834.48MHz
10	363	835.89MHz
11	404	837.12MHz
12	445	838.35MHz
13	486	839.58MHz
14	527	840.81MHz
15	568	842.04MHz
16	609	843.27MHz
17	650	844.27MHz
18	697	845.91MHz
19	738	847.14MHz
20	779	848.37MHz

Receiver Frequency		
FA NO.	CH NO.	Center Frequency
1	1011	869.64MHz
2	29	870.87MHz
3	70	872.10MHz
4	111	873.33MHz
5	152	874.56MHz
6	193	875.79MHz
7	234	877.02MHz
8	275	878.25MHz
9	316	879.58MHz
10	363	880.89MHz
11	404	882.12MHz
12	445	883.35MHz
13	486	884.58MHz
14	527	885.81MHz
15	568	887.04MHz
16	609	888.27MHz
17	650	889.27MHz
18	697	890.91MHz
19	738	892.14MHz
20	779	893.37MHz