

General Specification	
Model No.	SPTT-N60
Dimension	170x80x85mm
Weight	380g
Screen Size	4.5 inches Touch LCD
Working Voltage	DC 10-24V
Working Temperature	-30℃ to +75℃
Battery Capacity	4800mAh(Li-polymer battery)
Platform Management	REAL PTT
Talk Range	Unlimited
RF Parameter	
Frequency Range	GSM 850/1900MHz 900/1800MHz
	WCDMA 850/1900MHz 900/2100MHz
Maximum Output Power	WCDMA 2100/1900/900/850MHz: Power class 3 (+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHz/900MHz: Power class 4 (+33dBm +2.5/-0.5dBm)
	GSM/GPRS 1800MHz/1900MHz: Power class 1 (+30dBm +2.5/-0.5dBm)
Receiving Sensitivity	WCDMA 2100: ≤-108dBm
	WCDMA1900: ≤-109dBm
	WCDMA900: ≤-109dBm
	WCDMA850: ≤-109dBm
	GSM850/900/1800/1900: ≤-107dBm
GPS	
GPS	GPS Positioning, Support A-GPS function, 1.57542GHz;
Sensitivity	Catch -144dBm, Track -159dBm
Technical Sensitivity	
	GSM CS: UL 9.6kpbs/ DL 9.6kpbs

Data Speed Rate	GPRS: Multi-slot Class 10
	EDGE: Multi-slot Class 12
	WCDMA CS: UL 64kpbs/ DL 64kpbs
	WCDMA PS: UL 384kpbs/ DL 394kpbs
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM
WIFI	
WIFI	IEEE 802.11 b/g/n , 2.4G;
Maximum RF power	≤20dBm
Receiving Sensitivity	IEEE 802.11 g: ≤-65dBm;
BT	
BT	Support V4.0,V3.0,V2.1
Maximum RF power	Class 1 ≤10dBm;
Receiving Sensitivity	GFSK: ≤-95dBm,DQPSK: ≤-94dBm , DPSK: ≤-88dBm;

Specification	
Model No.	N60
Dimension	170x80x85mm
Weight	380g
Screen Size	4.5 inches Touch LCD
OS	Android 8.1.0
CPU	MT67375V/CMA
CPU Frequency	ARM Cortex-A53 Quad-core processor (1.2GHz)
Core	4
Bit	64
RAM Capacity	1GB
ROM Capacity	8GB
Micro SD card	MICRO SD
Operating Voltage	12-36V DC
ACC starting UP	Support
Antenna	WIFI/BT
Antenna Port	SMA
GPS Antenna Port	SMA
Frequency Bands (EU)	TDD-LTE: Band 38/39/40/41 FDD-LTE: Band 1/3/5/7/8/20 WCDMA: Band 1/2/5/8 GSM/GPRS/EDGE: Band 2/3/5/8
Frequency Bands (US)	TDD-LTE: Band 1/2/4/5/7/12/13/17/28a/28b WCDMA: Band 1/2/4/5 GSM/GPRS/EDGE: Band 2/5

General Specification	
Model No.	SPTT-100
Dimension	120x95x38mm
Weight	500g
Working Voltage	DC 3.6-4.2V
Working Current	250mA@UMTS 2100/900
	220mA@GSM 900
Peak Current	0.8A
Working Temperature	-30℃ to +75℃
RF Parameter	
Frequency Range	GSM 850/1900MHz 900/1800MHz WCDMA 850/1900MHz 900/2100MHz
Maximum Output Power	WCDMA 2100/1900/900/850MHz: Power class 3 (+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHz/900MHz: Power class 4 (+33dBm +2.5/-0.5dBm)
	GSM/GPRS 1800MHz/1900MHz: Power class 1 (+30dBm +2.5/-0.5dBm)
Receiving Sensitivity	WCDMA 2100: ≤-108dBm
	WCDMA1900: ≤-109dBm
	WCDMA900: ≤-109dBm
	WCDMA850: ≤-109dBm
	GSM850/900/1800/1900: ≤-107dBm
GPS	
GPS	GPS Positioning, 1.57542GHz
Sensitivity	Catch -144dBm, Track -159dBm
Technical Sensitivity	
	GSM CS: UL 9.6kpbs/ DL 9.6kpbs
	GPRS: Multi-slot Class 10

Data Speed Rate	EDGE: Multi-slot Class 12
	WCDMA CS: UL 64kpbs/ DL 64kpbs
	WCDMA PS: UL 384kpbs/ DL 394kpbs
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM

General Specification				
Dimension		120*95*38MM		
Weight		280G		
Operating Voltage		12-36V DC		
GPS Antenna		External Active		
ACC Function		Support		
Frequency Band				
GSM		EGSM900MHZ		
		DCS1800MHZ		
CDMA200/EVDO		BC0		
WCDMA		Band1		
		Band8		
TD-SCDMA		TD-SCDMA 1.9G		
		TD-SCDMA 2G		
LTE-FDD		LTE-FDD B1		
		LTE-FDD B3		
		LTE-FDD B8		
LTE-TDD		LTE-FDD B38		
		LTE-FDD B39		
		LTE-FDD B40		
		LTE-FDD B41		
TX Power				
GSM/GPRS Power Level		EGSM900:4(2W)		
		DCS1800:1(1W)		
EDGE Power Level		DGSM900:E2(0.5W)		
		DCS1800:E1(0.4W)		
CDMA 1X Power Level		3 (0.25W)		
UMTS Power Level		WCDMA:3(0.25W)		
		EVDO:3(0.25W)		
		TD-SCDMA:2(0.25W)		
LTE Power Level		3 (0.25W)		
Receiving Sensitivity				
Frequency		Sensitivity	Sensitivity(Max)	
EGSM900		<-109dBm	3GPP	
DCS1800		<-109dBm	3GPP	
WCDMA 2100		<-110dBm	3GPP	
WCDMA 900		<-109dBm	3GPP	
TDSCDMA 1900		<-109dBm	3GPP	
TDSCDMA 2000		<-109dBm	3GPP	
CDMA BC0		<-109dBm	3GPP	
LTE FDD/TDD		As follows	3GPP	
Reference sensitivity				
E-UTRA	3GPP Standard		Test Data	3GPP
				Duplex

Frequency Band		3MHZ	5MHZ	10MHZ	10MHZ	15MHZ	20MHZ	Duplex Mode
1	-	-	-100	-97	-101	-95.2	-94	FDD
3	-101.7	-98.7	-97	-94	-99	-92.2	-91	FDD
8	-102.2	-99.2	-97	-94	-102			FDD
38	-	-	-100	-97	-101	-95.2	-94	TDD
39	-	-	-100	-97	-101.5	-95.2	-94	TDD
40	-	-	-100	-97	-101	-95.2	-94	TDD
41	-	-	-99	-96	-101	-94.2	-93	TDD
GPS Parameters								
GPS Sensitivity				-159dBm (GPS)/-158dBm (GLONASS)/TBD(BD)				
Cold Start Sensitivity				-148dBm				
Positioning Accuracy (in the				2.5m				
TTFF(In the open air)				Hot Start<1S, Cold Start<35S				
Type				16-channel,C/A Code				
GPS L1 Frequency				1574.42±1.023MHZ				
GLONASS Frequency				1597.5~1605.8MHZ				
BeiDou Frequency				1559.05~1563.14MHZ				
Update Frequency				Default 1Hz				
GNSS Data Format				NMEA-0183				
GNSS Current Consumption				mA(GSM/CDMA 1X/UMTS/LTE Sleep, VBAT P				
GNSS				Active				

General Specification	
Model No.	SPTT-62
Dimension	130x65x45mm (excluding antenna)
Weight	340g
Operated Voltage	DC 7.4V
GSM/WCDMA 2G/3G walkie talkie with GPS	Dual modes (WCDMA/GSM 3G IP radio + UHF VHF radio in one) two way radio
Operataing mode	Same frequency simplex different frequency simplex
	Standby operating current:5mA(in receiving -75dBm status)
Operating current range	Sleep operating current:5mA(in receiving -75dBm status)
	Average operating current:120mA(in receiving -75dBm status)
	Maximum operating current:780mA(in receiving -104dBm status)
Receiving sensitivity	-106dBm
MAX.Transmit Power	23-26dBm
Working Environment	Operating Temperature:-20℃ to~45℃
	Storage Temperature:-40℃ to ~70℃
Basic Parameter	
(U)SIM/SIM	Standdard SIM card interface
	3V SIM card and 1.8V SIM card
MAX Power Dissipation	about 2.2w
Voltage	DC3.3-4.2V,Recommended Voltage 3.8V
Operating Current	MAX. Current About 0.6A Average
	Operating Current About 540mA@UMTS2100 About 239mA@GSM900
	Standby Current About 5mA@UMTS About 5mA@GSM
RF Parameter	
GSM(2g)	900/1800MHZ or 850/1900MHZ

Frequency Range	900/1800MHZ or 850/1900MHZ
UMTS(3G/WCDMA) Frequency Range	900/2100MHZ or 850/1900MHZ
Max Output Power	UMTS 2100/1900/900/850MHZ: Power class 3(+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHZ/900MHZ: Power class 4(+33dBm +2.5/-1.5dBm)
	GSM/GPRS 1800MHZ/1900MHZ: Power class 1(+30dBm +2.5/-1.5dBm)
	EDGE 850MHZ/900MHZ: Power class E2(+27dBm +4.5/-1.5dBm)
	EDGE 1800MHZ/1900MHZ: Power class E2(+26dBm +4.5/-2.5dBm)
Receiving sensitivity	WCDMA2100≤-108dBm
	WCDMA1900/WCDMA900/WCDMA850≤-109dBm GSM1900/GSM1800/GSM900/GSM850≤-107dBm
GPS	
GPS	GPS Positioning, 1.57542GHz
Sensitivity	Catch -144dBm,Track -159dBm
Technical Standards	
Data Rates	GSM CS:UL 9.6kbps/DL9.6kbps
	GPRS:Muliti-slot Class 10
	EDGE:Muliti-slot Class 12
	WCDMA CS:UL 64kbps/DL 64kbps
	WCDMA PS:UL 384kbps/DL 384kbps
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM
HSDPA	HSDPA:DL3.6Mb/s(Catagory6)

General Specification	
Model No.	SPTT-6900
Dimension	65x43x137mm(excluding antenna)
Weight	330g
Screen Size	2.4 inches, 240x320mm
Working Voltage	DC 3.6-4.2V
Working Temperature	-30℃ to +75℃
Battery Capacity	4800mAh(Li-polymer battery)
Platform Management	REAL PTT
Talk Range	Unlimited
RF Parameter	
Frequency Range	GSM 850/1900MHz 900/1800MHz
	WCDMA 850/1900MHz 900/2100MHz
Maximum Output Power	WCDMA 2100/1900/900/850MHz: Power class 3 (+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHz/900MHz: Power class 4 (+33dBm +2.5/-0.5dBm)
	GSM/GPRS 1800MHz/1900MHz: Power class 1 (+30dBm +2.5/-0.5dBm)
Receiving Sensitivity	WCDMA 2100: ≤-108dBm
	WCDMA1900: ≤-109dBm
	WCDMA900: ≤-109dBm
	WCDMA850: ≤-109dBm
	GSM850/900/1800/1900: ≤-107dBm

General Specification	
Model No.	SPTT-N70
Dimension	127x60x38mm (excluding antenna)
Weight	270g
Battery Capacity	2000mAh
Operated Voltage	DC 7.4V
Receiving sensitivity	-106dBm
MAX.Transmit Power	23-26dBm
Working Environment	Operating Temperature:-20℃ to~45℃
	Storage Temperature:-40℃ to ~70℃
Basic Parameter	
(U)SIM/SIM	Standdard SIM card interface
	3V SIM card and 1.8V SIM card
MAX Power Dissipation	about 2.2w
Voltage	DC3.3-4.2V,Recommended Voltage 3.8V
Operating Current	MAX. Current About 0.6A Average
	Operating Current About 540mA@UMTS2100 About 239mA@GSM900
	Standby Current About 5mA@UMTS About 5mA@GSM
RF Parameter	
GSM(2g)	900/1800MHZ or 850/1900MHZ
UMTS(3G/WCDMA) Frequency Range	900/2100MHZ or 850/1900MHZ
	UMTS 2100/1900/900/850MHZ: Power class 3(+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHZ/900MHZ: Power class 4(+33dBm +2.5/-1.5dBm)

Max Output Power	GSM/GPRS 1800MHZ/1900MHZ: Power class 1(+30dBm +2.5/-1.5dBm)
	EDGE 850MHZ/900MHZ: Power class E2(+27dBm +4.5/-1.5dBm)
	EDGE 1800MHZ/1900MHZ: Power class E2(+26dBm +4.5/-2.5dBm)
Receiving sensitivity	WCDMA2100≤-108dBm
	WCDMA1900/WCDMA900/WCDMA850≤-109dBm GSM1900/GSM1800/GSM900/GSM850 ≤-107dBm
GPS	
GPS location	GPS Positioning, 1.57542GHz
Sensitivity	Catch -144dBm,Track -159dBm
Technical Standards	
Data Rates	GSM CS:UL 9.6kbps/DL9.6kbps
	GPRS:Muliti-slot Class 10
	EDGE:Muliti-slot Class 12
	WCDMA CS:UL 64kbps/DL 64kbps
	WCDMA PS:UL 384kbps/DL 384kbps
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM
HSDPA	HSDPA:DL3.6Mb/s(Catagory6)

Model No.
Dimension
Weight
Battery Capacity
Operated Voltage
Receiving sensitivity
MAX.Transmit Power
Working Environment
(U)SIM/SIM
MAX Power Dissipation
Voltage
Operating Current
GSM(2g)
UMTS(3G/WCDMA) Frequency Range
Max Output Power

Receiving sensitivity
GPS location
Sensitivity
Data Rates
Protocol
HSDPA

General Specification
SPTT-7Plus
116x57x35mm (excluding antenna)
360g
3800mAh /6000mAh
DC 4.2V
-106dBm
23-26dBm
Operating Temperature:-20℃ to~45℃
Storage Temperature:-40℃ to ~70℃
Basic Parameter
Standdard SIM card interface
3V SIM card and 1.8V SIM card
about 2.2w
DC3.3-4.2V,Recommended Voltage 3.8V
MAX. Current About 0.6A Average
Operating Current About 540mA@UMTS2100 About 239mA@GSM900
Standby Current About 5mA@UMTS About 5mA@GSM
RF Parameter
900/1800MHZ or 850/1900MHZ
900/2100MHZ or 850/1900MHZ
UMTS 2100/1900/900/850MHZ:Power class 3(+24dBm +2.5/-1.5dBm)
GSM/GPRS 850MHZ/900MHZ: Power class 4(+33dBm +2.5/-1.5dBm)
GSM/GPRS 1800MHZ/1900MHZ: Power class 1(+30dBm +2.5/-1.5dBm)
EDGE 850MHZ/900MHZ: Power class E2(+27dBm +4.5/-1.5dBm)
EDGE 1800MHZ/1900MHZ: Power class E2(+26dBm +4.5/-2.5dBm)

WCDMA2100≤-108dBm
WCDMA1900/WCDMA900/WCDMA850≤-109dBm GSM1900/GSM1800/GSM900/GSM850≤-107dBm
GPS
GPS Positioning, 1.57542GHz
Catch -144dBm,Track -159dBm
Technical Standards
GSM CS:UL 9.6kbps/DL9.6kbps
GPRS:Muliti-slot Class 10
EDGE:Muliti-slot Class 12
WCDMA CS:UL 64kbps/DL 64kbps
WCDMA PS:UL 384kbps/DL 384kbps
HSDPA/WCDMA/EDGE/GPRS/GSM
HSDPA:DL3.6Mb/s(Catagory6)

General Specification	
Model No.	SPTT-Mini 1
Dimension	57x40x105mm
Weight	150g
Working Voltage	DC 3.6-4.2V
Working Current	250mA@UMTS 2100/900
	220mA@GSM 900
Peak Current	0.8A
Working Temperature	-30℃ to +75℃
RF Parameter	
Frequency Range	GSM 850/1900MHz 900/1800MHz
	WCDMA 850/1900MHz 900/2100MHz
Maximum Output Power	WCDMA 2100/1900/900/850MHz: Power class 3 (+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHz/900MHz: Power class 4 (+33dBm +2.5/-0.5dBm)
	GSM/GPRS 1800MHz/1900MHz: Power class 1 (+30dBm +2.5/-0.5dBm)
Receiving Sensitivity	WCDMA 2100: ≤-108dBm
	WCDMA1900: ≤-109dBm
	WCDMA900: ≤-109dBm
	WCDMA850: ≤-109dBm
	GSM850/900/1800/1900: ≤-107dBm
GPS	
GPS	GPS Positioning, 1.57542GHz
Sensitivity	Catch -144dBm, Track -159dBm
Technical Sensitivity	

Data Speed Rate	GSM CS: UL 9.6kpbs/ DL 9.6kpbs
	GPRS: Multi-slot Class 10
	EDGE: Multi-slot Class 12
	WCDMA CS: UL 64kpbs/ DL 64kpbs
	WCDMA PS: UL 384kpbs/ DL 394kpbs
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM

General Specification	
Model No.	SPTT-N20
Dimension	60x38x103mm
Weight	190g
Working Voltage	DC 3.6-4.2V
Working Current	250mA@UMTS 2100/900
	220mA@GSM 900
Peak Current	0.8A
Working Temperature	-30℃ to +75℃
RF Parameter	
Frequency Range	GSM 850/1900MHz 900/1800MHz
	WCDMA 850/1900MHz 900/2100MHz
Maximum Output Power	WCDMA 2100/1900/900/850MHz: Power class 3 (+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHz/900MHz: Power class 4 (+33dBm +2.5/-0.5dBm)
	GSM/GPRS 1800MHz/1900MHz: Power class 1 (+30dBm +2.5/-0.5dBm)
Receiving Sensitivity	WCDMA 2100: ≤-108dBm
	WCDMA1900: ≤-109dBm
	WCDMA900: ≤-109dBm
	WCDMA850: ≤-109dBm
	GSM850/900/1800/1900: ≤-107dBm
GPS	
GPS	GPS Positioning, 1.57542GHz
Sensitivity	Catch -144dBm, Track -159dBm
Technical Sensitivity	

Data Speed Rate	GSM CS: UL 9.6kpbs/ DL 9.6kpbs
	GPRS: Multi-slot Class 10
	EDGE: Multi-slot Class 12
	WCDMA CS: UL 64kpbs/ DL 64kpbs
	WCDMA PS: UL 384kpbs/ DL 394kpbs
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM

General Specification	
Model No.	SPTT-W1
Dimension	64x42x135mm
Weight	290g
Working Voltage	DC 3.6-4.2V
Working Current	250mA@UMTS 2100/900
	220mA@GSM 900
Peak Current	0.8A
Working Temperature	-30℃ to +75℃
RF Parameter	
Frequency Range	GSM 850/1900MHz 900/1800MHz
	WCDMA 850/1900MHz 900/2100MHz
Maximum Output Power	WCDMA 2100/1900/900/850MHz: Power class 3 (+24dBm +2.5/-1.5dBm)
	GSM/GPRS 850MHz/900MHz: Power class 4 (+33dBm +2.5/-0.5dBm)
	GSM/GPRS 1800MHz/1900MHz: Power class 1 (+30dBm +2.5/-0.5dBm)
Receiving Sensitivity	WCDMA 2100: ≤-108dBm
	WCDMA1900: ≤-109dBm
	WCDMA900: ≤-109dBm
	WCDMA850: ≤-109dBm
	GSM850/900/1800/1900: ≤-107dBm
GPS	
GPS	GPS Positioning, 1.57542GHz
Sensitivity	Catch -144dBm, Track -159dBm
Technical Sensitivity	

Data Speed Rate	GSM CS: UL 9.6kpbs/ DL 9.6kpbs
	GPRS: Multi-slot Class 10
	EDGE: Multi-slot Class 12
	WCDMA CS: UL 64kpbs/ DL 64kpbs
	WCDMA PS: UL 384kpbs/ DL 394kpbs
Protocol	HSDPA/WCDMA/EDGE/GPRS/GSM

General	
Model No.	GT-10
Dimension	65x46x140mm
Weight	360g
Frequency Range	UHF 400-470MHz
	VHF 136-174MHz
Channel Capacity	199CH
Channel Spacing	12.5KHz/25KHz
Operating Voltage	7.4V-8.4V DC
Battery Capacity	3000mAh (Li-polymer)
Operating Temperature	-20℃ to +50 ℃
Frequency Stability	±2.5ppm
Antenna Impedance	50Ω
Transmitter	
Output Power	H:10Watts M: 5Watts L:2watts
Modulation Type	16kφF3E(Wide Band)
	11kφF3E(Narrow Band)
MAX. Frequency Deviation	<5KHZ(Wind Band)
	<2.5KHZ(Narrow Band)
Adjacent Channel Power	≥60dBTransmitter
S/N	≥45dB
Audio Distortion	≤3%
Audio Response	6dB/Each octave
FM	≤-36dB
Receiver	
Sensitivity	≤0.25V
Spurious Rejection	≥80dB

Audio Response	6dB/Each octave
S/N	≥50dB
Rated Output Power	≤2%
Audio Output Level	22dBMW(10%hours)

General Specification	
Model No.	1410
Frequency Range	UHF 400-470MHZ
Channel Capacity	16 CH
Operated Voltage	DC 3.3-4.2V
Channel Spacing	12.5KHZ/ 25KHZ
Battery Capacity	1500mAh Li-Ion Battery
Frequency Stability	±2.5ppm
Operating Temperature	-20℃ to +50℃
Antenna Impedance	50Ω
Dimension	95x52x21.5mm (excluding antenna)
Weight	80g
Transmitter	
Frequency Error	±500Hz
TX Current	≤1.2A
TX Frequency Offset	4.3 ± 0.1KHz
	2.1 ± 0.1KHz
TX Power	2W
CTCSS	0.6 ± 1KHz
DCS	0.6 ± 1KHz
Frequency Response	0.3KHz
	0.57KHz
TX SNR	>50dB
TX Modulation Distortion	≤5%
Adjacent Power Ratio	≤-66dB
Receiver	
RX Sensitivity	≤-121dB

SQ	-126(OFF) -123(ON)
RX Frequency Response	0.3KHz
	0.86V
Audio Distortion	≤5%
Speaker Max Output	1.4V ± 0.1V

General	
Model No.	2700
Frequency Range	UHF 400-470MHz
	VHF 136-174MHz
Channel Capacity	16CH
Channel Spacing	12.5KHz/25KHz
Operating Voltage	3.7V
Battery Capacity	1500mAh (Li-Ion)
Operating Temperature	-20℃ to +50 ℃
Frequency Stability	±2.5ppm
Antenna Impedance	50Ω
Dimension	57x35x110mm
Weight	130g
Transmitter	
Output Power	2watts
Modulation Type	16kφF3E(Wide Band)
	11kφF3E(Narrow Band)
MAX. Frequency Deviation	<5KHZ(Wind Band)
	<2.5KHZ(Narrow Band)
Adjacent Channel Power	≥60dB
S/N	≥45dB
Audio Distortion	≤3%
Audio Response	6dB/Each octave
FM	≤-36dB
Receiver	
Sensitivity(12dB SINAD)	≤0.25uV(Wide Band)
	≤0.35uV(Narrow Band)

Intermodulation	65dB
Adjacent Channel Selectivity	≥65dB(Wide Band) ≥60dB(Narrow Band)
S/N	≥50dB
Audio Response	6dB/Each octave
Rated Audio Distortion	≤3%
Audio Output Level	22dBmW(10%hours)
Rated Audio Output power	1000mw
Spurious Rejection	≥80dB
MAX. Frequency Deviation	<5KHZ(Wide Band) <2.5KHZ(Narrow Band)

Model No.
Frequency Range
Channel Capacity
Channel Spacing
Operating Voltage
Battery Capacity
Operating Temperature
Frequency Stability
Antenna Impedance
Dimension
Weight
T
Output Power
Modulation Type
MAX. Frequency Deviation
Adjacent Channel Power
S/N
Audio Distortion
Audio Response
FM
Sensitivity(12dB SINAD)

Intermodulation
Adjacent Channel Selectivity
S/N
Audio Response
Rated Audio Distortion
Audio Output Level
Rated Audio Output power
Spurious Rejection
MAX. Frequency Deviation

General
5700
UHF 400-470MHz
VHF 136-174MHz
16CH
12.5KHz/25KHz
7.4V-8.4V DC
1750mAh (Li-Ion)
-20℃ to +50 ℃
±2.5ppm
50Ω
64x42x135mm
340g
Transmitter
5 watts
16kφF3E(Wide Band)
11kφF3E(Narrow Band)
<5KHZ(Wind Band)
<2.5KHZ(Narrow Band)
≥60dB
≥45dB
≤3%
6dB/Each octave
≤-36dB
Receiver
≤0.25uV(Wide Band)
≤0.35uV(Narrow Band)

65dB
≥65dB(Wide Band) ≥60dB(Narrow Band)
≥50dB
6dB/Each octave
≤3%
22dBMW(10%hours)
1000mw
≥80dB
<5KHZ(Wind Band) <2.5KHZ(Narrow Band)

General	
Model No.	8500
Frequency Range	UHF 400-470MHz
	VHF 136-174MHz
Channel Capacity	16CH
Channel Spacing	12.5KHz/25KHz
Operating Voltage	7.4V-8.4V DC
Battery Capacity	1950mAh (Li-Ion)
Operating Temperature	-20℃ to +50 ℃
Frequency Stability	±2.5ppm
Antenna Impedance	50Ω
Dimension	60x37x130mm
Weight	260g
Transmitter	
Output Power	5 watts
Modulation Type	16kφF3E(Wide Band)
	11kφF3E(Narrow Band)
MAX. Frequency Deviation	<5KHZ(Wind Band)
	<2.5KHZ(Narrow Band)
Adjacent Channel Power	≥60dB
S/N	≥45dB
Audio Distortion	≤3%
Audio Response	6dB/Each octave
FM	≤-36dB
Receiver	
Sensitivity(12dB SINAD)	≤0.25uV(Wide Band)
	≤0.35uV(Narrow Band)

Intermodulation	65dB
Adjacent Channel Selectivity	≥65dB(Wide Band) ≥60dB(Narrow Band)
S/N	≥50dB
Audio Response	6dB/Each octave
Rated Audio Distortion	≤3%
Audio Output Level	22dBmW(10%hours)
Rated Audio Output power	1000mw
Spurious Rejection	≥80dB
MAX. Frequency Deviation	<5KHZ(Wide Band) <2.5KHZ(Narrow Band)

General Specifications
Model No.
Frequency Range
Operated Voltage
Battery Capacity
Storage Channel
Dimension
Weight
Transmission Specifications
Channel Spacing
Frequency Stability(-20℃, +60℃, +25℃)
Output Power
Modulation Limited
FM hum and noise
Conducted/radiated emission
Adjacent Channel Power
Audio Response
Audio Distortion
FM Modulation
4FSK Digital Modulation
Digital Vocoder Type

Digital Agreement
Rece
Channel Spacing
Frequency Stability(-20°C, +60°C, +25°C)
Analog Sensibility
Digital Sensibility
Intermodulation
Adjacent Channel Selectivity
Spurious Rejection
Rated Audio
Audio Distortion @ Rated Audio
FM hum and noise
Adudio Response
Spurious Emiossion

Specification
6200D
UHF 400-520MHZ
DC7.4-8.4V
3000mAh
256CH
130x65x45mm (excluding antenna)
340g
Transmitter
12.5KHz/25KHz/6.25KHz(DPMR)
±1.5ppm
L: 1W H: 6W
±2.5KHz @ 12.5KHz
±5.0KHz@ 25KHz
-40dB @ 12.5KHz
-45dB @ 12.5KHz
-36dBm < 1GHz
-30dBm < 1GHz & <4GHz
-60dB @ 12.5KHz
-65dB @ 12.5KHz
+1, -3dB
3%
12.5KHz: 11KΦF3E
25KHz: 16KΦF3E
12.5KHz only data: 7K60FXD
12.5KHz data and audio:7K60FXE
AMBE(optional)

DMR
Receiver
12.5KHz/25KHz/6.25KHz(DPMR)
$\pm 1.5\text{ppm}$
0.25 μV (12dB SINAD)
0.3 μV (20dB SINAD)
5% BER: 0.3 μV
65 dB
60 dB @ 12.5KHz
60 dB @ 25KHz
65dB
1.2W
0.03
-40dB @ 12.5KHz
-45dB @ 25KHz
+1, -3dB
-57 dBm

General Specifications
Model No.
Frequency Range
Operated Voltage
Battery Capacity
Storage Channel
Dimension
Weight
Transmitter Specifications
Channel Spacing
Frequency Stability(-20℃, +60℃, +25℃)
Output Power
Modulation Limited
FM hum and noise
Conducted/radiated emission
Adjacent Channel Power
Audio Response
Audio Distortion
FM Modulation
4FSK Digital Modulation
Digital Vocoder Type

Digital Agreement
Rece
Channel Spacing
Frequency Stability(-20°C, +60°C, +25°C)
Analog Sensibility
Digital Sensibility
Intermodulation
Adjacent Channel Selectivity
Spurious Rejection
Rated Audio
Audio Distortion @ Rated Audio
FM hum and noise
Adudio Response
Spurious Emiossion

Specification
6200D
UHF 400-520MHZ
DC7.4-8.4V
3000mAh
256CH
130x65x45mm (excluding antenna)
340g
Transmitter
12.5KHz/25KHz/6.25KHz(DPMR)
±1.5ppm
L: 1W H: 6W
±2.5KHz @ 12.5KHz
±5.0KHz@ 25KHz
-40dB @ 12.5KHz
-45dB @ 12.5KHz
-36dBm < 1GHz
-30dBm < 1GHz & <4GHz
-60dB @ 12.5KHz
-65dB @ 12.5KHz
+1, -3dB
3%
12.5KHz: 11KΦF3E
25KHz: 16KΦF3E
12.5KHz only data: 7K60FXD
12.5KHz data and audio:7K60FXE
AMBE(optional)

DMR
Receiver
12.5KHz/25KHz/6.25KHz(DPMR)
$\pm 1.5\text{ppm}$
0.25 μV (12dB SINAD)
0.3 μV (20dB SINAD)
5% BER: 0.3 μV
65 dB
60 dB @ 12.5KHz
60 dB @ 25KHz
65dB
1.2W
0.03
-40dB @ 12.5KHz
-45dB @ 25KHz
+1, -3dB
-57 dBm

General			
Dimention		123x60x35mm	
Weight		220g	
Frequency Band		LTE FDD: Band 1,3,5,8	
		LTE TDD: Band 34,38,39,40,41	
		WCDMA/HSPA+: Band1,8	
		GSM/GPRS/EDGE: 900/1800MHz	
Data Transmission			
LTD FDD Rel.9		150Mbps DL/50Mbps UL(Cat4)	
LTD TDD Rel.9		112Mbps DL/10Mbps UL(Cat4)	
UMTS/HSPA+Rel.6		UMTS:384kbps DL/384kbps UL	
		HSPA+:21Mbps DL(Cat14)/5.76Mbps UL(Cat6)	
TD-SCDMA Rel.9		4.2Mbps DL/2.2Mbps UL	
GPRS/EDGE Rel.5		GPRS:85.6kbps DL/85.6kbps UL(multi-slot lass12)	
Frequency Power			
Mode	Band	Tx Power(dBm)	Note
GSM	GSM 900	32.5	±1dB
	DCS 1800	29.5	±1dB
WCDMA	Band I	23.5	±1dB
	Band VIII	23.5	±1dB
LTE FDD	Band 1	23	±1dB
	Band 3	23	±1dB
	Band 5	23	±1dB
	Band 8	23	±1dB
LTE TDD	Band 34	23	±1dB
	Band 38	23	±1dB
	Band 39	23	±1dB
	Band 40	23	±1dB
	Band 41	23	±1dB
Receiving Sensitivity			
Mode	Band	Rx Sensitivity(dBm) Typica	Note
GSM	GSM 900	-108	BER<2.43%
	DCS 1800	-108	BER<2.43%
WCDMA	Band I	-111	BER<0.1%
	Band VIII	-111	BER<0.1%
LTE FDD	Band 1	-100	10MHz Band width
	Band 3	-100	10MHz Band width
	Band 5	-100	10MHz Band width
	Band 8	-101	10MHz Band width
LTE TDD	Band 34	-101	10MHz Band width
	Band 38	-100	10MHz Band width
	Band 39	-101	10MHz Band width
	Band 40	-100	10MHz Band width
	Band 41	-100	10MHz Band width

General				
Dimension		127x60x38mm		
Weight		270G		
Operating Voltage		DC7.4~8.4V		
Frequency Band				
GSM	EGSM900MHz			
	DCS1800MHz			
CDMA2000/EVDO		BC0		
WCDMA	BAND1			
	BAND8			
TD-SCDMA	TD-SCDMA 1.9G			
	TD-SCDMA 2G			
LTE-FDD	LTE-FDD B1			
	LTE-FDD B3			
	LTE-FDD B8			
LTE-TDD	LTE TDD B38			
	LTE TDD B39			
	LTE TDD B40			
	LTE TDD B41			
TX Power				
GSM/GPRS Power Level	EGSM900: 4 (2W)			
	DCS1800: 1 (1W)			
EDGE Power Level	DGSM900: E2 (0.5W)			
	DCS1800: E1 (0.4W)			
CDMA 1X Power Level		3 (0.25W)		
UMTS Power Level	WCDMA: 3 (0.25W)			
	EVDO: 3 (0.25W)			
	TD-SCDMA: 2 (0.25W)			
LTE Power Level		3 (0.25W)		
Receiving Sensitivity				
Frequency	Sensitivity		Sensitivity(Max)	
EGSM900	< -109dBm		3GPP	
DCS1800	< -109dBm		3GPP	
WCDMA 2100	< -110dBm		3GPP	
WCDMA 900	< -109dBm		3GPP	
TDSCDMA 1900	< -109dBm		3GPP	
TDSCDMA 2000	< -109dBm		3GPP	
CDMA BC0	< -109dBm		3GPP	
LTE FDD/TDD	As follows		3GPP	
Reference sensitivity				
E-UTRA	3GPP Standard		Test Data	3GPP Standard
Duplex Mode				

Frequency Band	1.4MHz	3MHz	5MHz	10MHz	10MHz	15MHz	20MHz	Duplex mode
1	-	-	-100	-97	-101	-95.2	-94	FDD
3	-101.7	-98.7	-97	-94	-99	-92.2	-91	FDD
8	-102.2	-99.2	-97	-94	-102			FDD
38	-	-	-100	-97	-101	-95.2	-94	TDD
39	-	-	-100	-97	-101.5	-95.2	-94	TDD
40	-	-	-100	-97	-101	-95.2	-94	TDD
41	-	-	-99	-96	-101	-94.2	-93	TDD

GPS Parameters

GPS Sensitivity	-159 dBm (GPS) / -158dBm (GLONASS) / TBD (BD)
Cold Start Sensitivity	-148 dBm
Positioning Accuracy (in the open air)	2.5m (CEP50)
TTFF (In the open air)	Hot Start < 1S , Cold Start < 35S
Type	16-channel, C/A Code
GPS L1 Frequency	1575.42±1.023MHz
GLONASS Frequency	1597.5~1605.8MHz
BeiDou Frequency	1559.05~1563.14MHz
Update Frequency	Default 1 Hz
GNSS Data Format	NMEA-0183
GNSS Current Consumption	100mA (GSM/CDMA 1X/UMTS/LTE 休眠 , VBAT引脚)
GNSS	Active

General	
Frequency Range	UHF 400-470MHz VHF 136-174MHz
Channel Capacity	128 Channels
Channel Step	25KHz(Wide Band), 12.5KHz(Na
Frequency Stability	±2.5ppm
Operating Voltage	7.4V DC ± 20%
Operating Temperature	-20℃ ~ +60 ℃
Antenna Impedance	50Ω
Dimension	134*60*38mm(with battery pack)
Weight	270g(with battery pack, antenna)
Transmitter	
	Wide Band
Output Power	5W
Modulation Mode	16K0F3E
Adjacent Channel Power	≥65dB
Singal Noise Ratio	≤-40dB
Parasitic Harmonic	≤65dB
Spurious Emission	≤-36dBm
Audio Response	300Hz-3KHz
Audio Distortion	≤5%
Receiver	
	Wide Band
Sensitivity	-120dBm (20db SINAD)
Intermodulation	≥60dB
Adjacent Channel Selectivity	≥60dB
Spurious Rejection	≥60dB
Audio Response	300Hz-3KHz
Signal to Noise Ratio	≥45dB
Audio Distortion	≤5%
Audio Output Power	1W

General	
Frequency Range	UHF
Channel Capacity	16 Channels
Channel Step	25KHz(Wide Band), 12.5KHz(Narrow Band)
Frequency Stability	±2.5ppm
Operating Voltage	7.4V DC ± 20%
Operating Temperature	-20℃ ~ +60 ℃
Antenna Impedance	50Ω
Dimension	136*60*36mm
Weight	260g
Transmitter	
	Wide Band
Output Power	5W
Modulation Mode	16K0F3E
Adjacent Channel Power	≥65dB
Singal Noise Ratio	≤-40dB
Parasitic Harmonic	≤65dB
Spurious Emission	≤-36dBm
Audio Response	300Hz-3KHz
Audio Distortion	≤5%
Receiver	
	Wide Band
Sensitivity	-120dBm (20db SINAD)
Intermodulation	≥60dB
Adjacent Channel Selectivity	≥60dB
Spurious Rejection	≥60dB
Audio Response	300Hz-3KHz
Signal to Noise Ratio	≥45dB
Audio Distortion	≤5%
Audio Output Power	1W

General	
Frequency Range	UHF
Channel Capacity	16
Channel Step	25KHz(宽带), 12.5KHz(窄带)
Frequency Stability	±2.5ppm
Operating Voltage	3.7V DC ± 20% (1000mAh)
Operating Temperature	-20°C ~ +60 °C
Antenna Impedance	50Ω
Dimension	108*42*13mm
Weight	60g
Transmitter	
Output Power	≤2W
Modulation Mode	≤5.0KHz, ≤2.5KHz (W/N)
Adjacent Channel Power	≥70dB
Signal Noise Ratio	≥45dB
Spurious Emission	≤-60dB
Audio Distortion	≤5%
Receiver	
Sensitivity	0.2uV(at 12dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	65/50dB
Audio Distortion	≤5%
Bluetooth (Option)	
Bluetooth	V2.1+EDR, BT4.1/BT4.2 (BLE)
Bluetooth Output Power Level	Class 1.5, Class 2
Bluetooth RX Sensitivity	LE GFSK 30.8%PER 1Mbps -93dBm
	GFSK 0.1%BER 1Mbps -91dBm
	π /4-DQPSK 0.01%BER 2Mbps -88dBm
	8-DPSK 0.01%BER 3Mbps -86dBm

General	
Frequency Range	UHF
Channel Capacity	16
Frequency Stability	$\pm 2.5\text{ppm}$
Operating Voltage	3.3V-4.2V DC
Operating Temperature	-20°C ~ +60 °C
Dimension	96x35x22mm
Weight	50g
Transmitter	
Output Power	$\geq 1\text{W}$
Modulation	16K ϕ 3E
Adjacent Channel Power	$\geq 60\text{dB}$
Signal Noise Ratio	$\geq 45\text{dB}$
Spurious Emission	$\leq -36\text{dB}$
Audio Distortion	$\leq 3\%$
Receiver	
Sensitivity	$\leq 0.2\mu\text{V}$
Spurious Rejection	$\geq 80\text{dB}$
Adjacent Channel Selectivity	$\geq 60\text{dB}$
Audio Distortion	$\leq 3\%$
Signal Noise Ratio	$\geq 45\text{dB}$