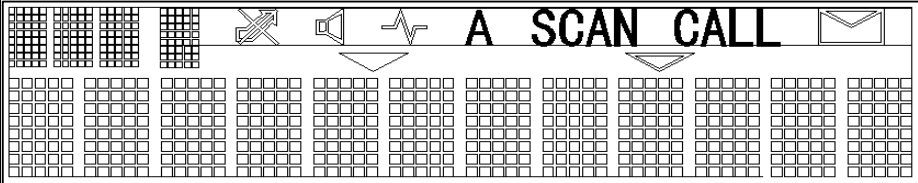


Mobile Radio Specifications				
Physical Sepecifications				Note
Dimension	HxWxL	48 X 180 X 164 mm		
Weight				
Front Panel	1 knob□8 programmable function buttons□dot matrix LCD□Front-mounted speaker			
Knob	Volume Knob			
Key	UP	DN		Channel(Group) select Programmable key (icon customize)
	PF1	PF2	PF3	
	PF4	PF5	PF6	
TX/BUSY LED indicators	Red when transimitting	Green when receiving voice	Orange when receiving message	LED
External Connector	Microphone	Antenna	Power	
	External speaker	Reserved connector		
Accessories	Microphone	Mounting Bracket	DC Power Cable	
Optional Accessories	Keypad Microphone	Functions Extension Cable		
	External speaker	Remote Mounting Kit		
Others	To design shield according to PCB requirement			
LCD				
Main Functions				Note
1□ Compandor Technology				
2□ LCD can display character, channel number & name, DTMF number,frequency, menu and settings.				
3□ LED indicator: Red when transimitting□Green when receiving voice□Orange when receiving code squelch, selective call, two/five-tone and DTMF signal.				
4□ MSK Modem□scrambler				
5□ 50 CTCSS/104 CDCSS Encode/Decode.				
6□ DTMF Encode and ANI Encode/Decode.				
7□ 2 Tone Sequential Encode/Decode.				
8□ 5 Tone ANI Encode/Decode.				
9□ Channel Scan Features: Single/Double Priority channels,revert channel selectable; channel & group add/delete; Muliple/Single group scanning.				

10□ TOT: Time Out Timer. Value definable.					
11□ Per Channel Hi/Med/Lo Power Setting					
12□ Repeater/Talk around					
13□ 9 Level User Adjustable Squelch					
14□ Test and Tuning via front panel					
15□ PC Programming (program, test and tuning)					
16□ Wire Clonable					
17□ Programmable Accessorial Functions					
18□ Soft Key Programming					
19□ Hang up remote speaker/microphone to begin channel scan, pick off to stop channel scan (This feature can be disabled/enabled)					
20□ Emergency Alarm					
21□ Message Function					
Extended Functions					Note
1□2Mbit Flash ROM allow for future updates□reserved updates interface					
2□Reserved LTR□MDC1200 signaling circuit, reserved SmarTrunk connection port					
3□External 15-pin extension port					
4□Internal GPS connection port□reserved GPS unit circuit□enable internal GPS installation)					
5□Internal extension port□extended functions option board installable□					
6□8 programmable CPU I/O ports for upgrading radio functions in future					
Technical Specification					
Model	VHF 25W	VHF 50W	UHF 25W	UHF 45W	
General					
Frequency Range	136-174MHz	136-174MHz	450-512MHz	450-512MHz	
Number of Channels	256	256	256	256	
Number of Groups	Max.256	Max.256	Max.256	Max.256	
Channel Spacing Wide/Narrow	25□30KHz /12.5□15KHz	25□30KHz /12.5□15KHz	25□30KHz /12.5□15KHz	25□30KHz /12.5□15KHz	
Channel Increments	2.5/5/6.25/7.5	2.5/5/6.25/7.5	2.5/5/6.25/7.5	2.5/5/6.25/7.5	
Operating. Frequency Spread	38MHz	38MHz	62MHz	62MHz	
Antenna Impedence	50Ω	50Ω	50Ω	50Ω	
Operating Voltage	13.6V±15%	13.6V±15%	13.6V±15%	13.6V±15%	
Current Drain - Standby	0.4A	0.4A	0.4A	0.4A	
Current Drain - Receive	<2.0A	<2.0A	<2.0A	<2.0A	
Current Drain - Transmit	<8A	<12A	<8A	<12A	

Operating Temperature Range	-30□+60□	-30□+60□	-30□+60□	-30□+60□
Frequency stability	±2.0ppm	±2.0ppm	±2.0ppm	±2.0ppm
Receiver				
Sensitivity Wide/Narrow	0.25/0.33μV	0.25/0.33μV	0.28/0.35μV	0.28/0.35μV
Selectivity Wide/Narrow	75/65dB	75/65dB	75/65dB	75/65dB
Intermodulation Wide/Narrow	70/65dB	70/65dB	70/65dB	70/65dB
Spurious Response	80	80	80	80
Audio Output	Internal 5W	Internal 5W	Internal 5W	Internal 5W
	External 12W	External 12W	External 12W	External 12W
Audio Distortion□3W/5W□	<3% / <10%	<3% / <10%	<3% / <10%	<3% / <10%
Receiver Attack Time	<150mS	<150mS	<150mS	<150mS
Receiver Closing Time	<250mS	<250mS	<250mS	<250mS
Receiver Resume Time	<150mS	<150mS	<150mS	<150mS
Audio Sensitivity	>80dB	>80dB	>80dB	>80dB
transmitter				
RF Output Power	High 25W	High 50W	High 25W	High 45W
	Medium 10W	Medium 25W	Medium 10W	Medium 25W
	Low 5W	Low 5W	Low 5W	Low 5W
adjacent channel power	70/60dB	70/60dB	70/60dB	70/60dB
Carrier Attack Time	<100mS	<100mS	<100mS	<100mS
CTCSS/CDCSS Modulation Limiting	5/2.5KHz	5/2.5KHz	5/2.5KHz	5/2.5KHz
CTCSS/CDCSS Tone Distortion	500-1000Hz 350-600Hz	500-1000Hz 350-600Hz	500-1000Hz 350-600Hz	500-1000Hz 350-600Hz
CTCSS Distortion	<5%	<5%	<5%	<5%
CTCSS/CDCSS Response Time	<150mS	<150mS	<150mS	<150mS
spurious emissions	80dB	80dB	80dB	80dB
FM S/N	48/42dB	48/42dB	48/42dB	48/42dB
AM S/N	34dB	34dB	34dB	34dB
CTCSS/CDCSS Modulation S/N	35dB	35dB	35dB	35dB
	30dB	30dB	30dB	30dB
MIC Sensitivity	91dB	91dB	91dB	91dB
Modulation Distortion	<3%	<3%	<3%	<3%