PT8100

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SPECIFICATIONS

General

Frenquency Range	136~174MHz , 438~490MHz 400~450MHz
Channel Capacity	128
Channel Spacing	12.5KHz/20KHz/25KHz
Frenquency Stability	2.5ppm
Operating temperature	-25℃~ + 55℃
Operating voltage	13.6V DC ±20%
Dimension(H×W×D)	150mm×131mm×43mm
Weight(with antenna&battery)	1310g

Transmitter

RF Power	5W/25W
Frenquency modulation	16KφF3E/11KφF3E
Antenna Impedance	50Ω
Modulation Limiting	±2.5KHz@12.5KHz, ±4KHz@25KHz ±5KHz@25KHz
Modulation Distortion	< 5%
Radiated Spurious Emission	-36dBm < 1GHz/-30dBm > 1GHz
FM Noise	-40dB @ 25KHz/-35dB @ 12.5KHz
Adjacent Channel Power	-60dB @ 12.5KHz/-70dB@20/ 25KHz

Receiver

Reference Sensitivity	0.28μV@12.5KHz 0.25μV@20/25KHz typical
Operating Bandwidth	W≥±7 N≥±3.5
First IF of Receiver	49.95
Second IF of Receiver	450
Adjacent channel Selectivity	60dB @ 12.5KHz 70dB @ 20/25KHz
Intermodulation Rejection	65 dB
Spurious Response Rejection	70 dB
Rated Audio Power	4W
Rated Audio Distortion	5%
FM Hum&Noise	40/35

NOTICE: The specifications may be subject to change without notice due to advancement in technology, for more detailed information, please contact KIRISUN Electronics [Shenzhen] Co., Ltd.

For more information, please contact:

PT8100
FM VHF/UHF Moble Radio

Professional choice

- Built-in 2-Tone / DTMF / 5-Tone
- Call Transfer / Call Back
- Repeater / Talk Around
- Remote Kill/Stun/Activate/Revive
- Power-on Self-inspection
- Lone Work & Security Check

128 Memory Channels
With 128 channels could be separated into 16 memory banks, user can quickly access pre-programmed contingency frequency plans ideal for regional-wide, cross-municipality communications!

Full Dot-matrix Display
Large LCD with full dot-matrix offers more convenience in operation on the utilities menu. Message and status of the radio could be read easily, such as the missed call indicator, strength indicator and so on. The backlit of LCD could be switched on or off for night time operations or less power consumption.

Embedded Radio Information
By programming software, user could get the embedded information in the radio, such as serial number, MCU software and hardware version, last programmed method and time. The radio could save public and private embedded message or welcome message for dealer and user's easy-to-recognize.

Different Version with Higher or Lower Power
To provide longer communication distance or less power consumption, PT-8100 series mobile radio provides different version with higher and lower power.

PLL Steps
2.5 kHz, 5 kHz and 6.25 kHz could be used for channel frequency assignment for greater efficiency in frequency resources.

5 Programmable keys
Up to 5 programmable keys could be set as different functions by hold or press on it.

16 Personal Templates for Channel Settings
To provide personalized communication and adapt to different applications, up to 16 personal templates could be selected for channel settings. In each template, there are many different features could be switched on or off. Such as VOX, TX conditions, Call Codes, and so on.

Full Built-in Tone-signaling
All tone-signaling encoder/decoder are built-in such as CTCSS, DCS, DTMF, 2-Tone or 5-Tone. A wide variety of selective calling systems are available to call speci?c station or control a repeater.

Versatile Scanning Features
Up to 16 scan templates for each channel allows different scan list for convenient administration in large work group. Pt8100 series offers both normal and priority scan modes. Most parameters in scan could be customized.

Personalized Alert Tone
Different alert sound can be customized; users only need to input different sound frequencies in the software.

Lone Work & Security Check
The radio enters emergency mode if the user does not respond to a warning call (Lone Work) or a inquire code (Security Check), adding security and safety for individuals who work remotely and lonely. To prevent any carelessly missing, the reset of lone work status could be by simply press on programmed key.

Remote Kill/Stun/Activate/Revive
If the radio is killed or stunned, all attempts on operation by user, except power on/off, will be ignored. The radio will be activated or revived only when it received the correct code.

Multiple Emergency Calls
The radio can be programmed to kinds of sound emergency call, with the emergency siren is enabled, the radio will transmit emergency ANI or sound continuously,

Flexible Call Operations
To achieve more efficiency in dispatch situation, the missed call could be transferred to a preprogrammed portable radio or directly call back from temporarily saved directory. And with support of signaling, several kinds of call mode are available, individual call, group call and call all fully meet various demands.

Call Authorization
The radio could be programmed as TX forbidden, TX on authorized or TX allowed to be used in different position in group.

Optional Selection Tone (OST)
The radio could be programmed to temporarily select CTCSS/DCS by one preprogrammed key.

Password Protection
The reading and programming on radio data could be protected by password to ensure the security and prevent data reveal.

Meet MIL-STD 810 C/D/E/F
Pt8100 is designed to meet MIL-STD 810 C/D/E/F specification covering physical and temperature shock, vibration, low pressure, and solar radiation.

Key lock
When this function is enabled, any operations on the key will be ignored. This helps to prevent the undesired operations caused by carelessness.

Lowest Volume Audibility
To prevent missing of any voice message caused by the mute operation on independent volume knob, PT-8100 offered the option to limit the lowest volume to be an audible level.

Power-on Self-inspection
Power-on of radio will be stopped automatically if there are any damages on radio's data or hardware.

High/Middle/Low Power Switch
In each channel, RF power could be selected for different applications in programming software or manually by utilities menu.

Ignition Switch
The radio could be set to be switched on with the ignition of car or manually for different applications.

Others function
PTT ID and Contact list
Voice Operated Transmission (VOX)
Repeater/Talk Around
Busy Channel Lockout (BCLO)
Time-out Timer (TOT)
Hook scan function
Dual home channels
Wired Clone
External out for Horn Drive
4W Front-mounted Speaker
Upgradeable Software
FCS