





Advantage Features

Superior Digital Voice

Built 2W high-power loudspeaker, ensuring the clear and crisp voice communications. With the adoption of narrowband codec and digital error-correction technologies, EP8000 is capable of ensuring your superior voice in the noise environment or at the edge of the coverage area.



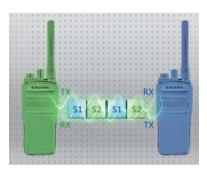
Built-in Bluetooth(Optional)

Equipped Bluetooth inside radio, ensuring the expanding applications such as BT accessories, BT wirelss programming and other applications.



Full- duplex calling (Optional)

Full duplex calling allows for natural and intuitive communications without to push-to-talk.



DMR Tier III Support

Supports DMR Tier III just by software upgrade and makes the radio applications more rich and more advanced.



High Capacity Battery Design

Equipped with 2400mAh or 3400mAh high capacity Panasonic Li-ion battery to ensure the radio's usage life.



Built-in Noise Reduction Function (Optional)

Featured with advanced noise reduction which makes the noise suppression be up to 25 dB. $\,$



Built -in GPS (Optional)

Supports to track position information and the GPS data.



Rich API Support

Rich API supports the user or third party to develop supplemental applications.



Advantage Features

IP68 and MIL-STD-810 Standards Compliance

EP8000 is compliant with the MIL-STD-810-G and IP68 (IEC60529) standard, ensuring outstanding performance even in harsh environment.



Main Functions

DMR Conventional

Radio Function

- > Direct/Repeat Mode
- > Scan
- > Bluetooth 4.0
- > RMO Pseudo Trunk
- > TDMA Direct Mode
- > Multi-site Roaming
- > Easy Trunk
- > VOX

Voice Service

- Group Call
- > Private Call
- > All Call
- > Emergency Call
- > Broadcast Call
- > Phone call
- > One Touch Call

Data Service

- > Text Messaging
- > Status Messaging
- > Clone

Supplementary Service

- > Call Alert
- > Radio Check
- > Remote Monitor
- > Radio Enable/Disable /Kill

Safety Function

- > DMRA Encryption(ARC4, DES&AES)
- > Transmit Interrupt
- > Lone Worker
- > Man Down

Location Service (optional)

- > GPS
- > Beidou
- > GLONASS

Analog Conventional Signaling

> CTCSS&CDCSS

> 2-Tone

> 5-Tone

> MDC1200

DMR Tier III and MPT Trunking (Software Licensed)

Optional Accessories



Specifications

General

Frequency Bands	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz UHF5: 806-825MHz 896-902MHz 935-941MHz	
Channel Capacity	1024 12.5/20/25KHz 125*54*35mm 320g (With standard battery and antenna) DC 7.2V 2400mAh(Li-ion, Panasonic cell) Analog: 13H(No GPS) 11.5H(With GPS) Digital: 15H(No GPS) 13H(With GPS)	
Channel Space		
Dimensions(H*W*D)		
Weight		
Operating Voltage		
Battery		
Battery Life (5-5-90 Duty Cycle, High TX Power)		

Transmitter

Frequency Stability	0.5ppm
RF Power Output	VHF: 5W/1W UHF1/UHF2/UHF3/UHF4: 4W/1W UHF5: 2.5W/1W
Digital Modulation	7K60FXD (Data Only) 7K60FXW (Data and Voice)
Analog Modulation	16K © F3E @ 25KHz /14K © F3E @ 20KHz /11K © F3E @ 12.5KHz
4FSK Modulation Accuracy	5%
4FSK TX BER	0%
4FSK and Magnitude Error	5% / 1%
Adjacent Channel Power	70dB @ 25/20 KHz / 60dB @ 12.5 KHz
Conducted and Radiated Emission	-36dBm <1GHz /-30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz / 4KHz@20KHz /2.5KHz@12.5KHz
Audio Distortion	3%
Hum and Noise	48dB @ 25KHz / 46dB@20KHz / 43dB @ 12.5KHz
Audio Response	+1 ~ -3dB

Receiver

Digital Sensitivity	-120dBm / BER 5% -116dBm / BER 1%
Digital Dynamic Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading)	-104dBm
Analog Sensitivity	-120dBm / 12dB SINAD
Intermodulation	70dB (TIA603) 65dB (ETSI)
Blocking	90dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Adjacent Channel Selectivity	75dB@25 KHz (TIA603) 70dB@25 KHz (ETSI) 70dB@20KHz (TIA603 & ETSI) 65dB@12.5KHz (TIA603) 60dB@12.5 KHz (ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	1W
Rated Audio Distortion	3%
Hum and Noise	48dB @25KHz / 46dB@20KHz / 43dB@12.5KHz
Audio Response	+1 ~ -3dB
Digital Vocoder Type	AMBE++
Digital Protocal	ETSI-TS102 361 -1, -2,-3,-4

Reliability

Operating Temperature	-30 ~ +60 ℃	
Storage Temperature	-40 ~ +85 °C	
Dust & Water Intrustion	IP68 (IEC60529)	
Humidity	MIL-STD-810 C/D/E/F/G Standard	
Shock&Vibration	MIL-STD-810 C/D/E/F/G Standard	
ESD	IEC 61000-4-2(level 4) ±8KV(Contact), ±15KV(Air)	

GPS

TIFF Cold Start	< 60s	
TIFF Hot Start	< 10s	
Horizontal Positioning Accuracy	< 9m	

Standard Accessories:



Battery





Charger



Power Adapter



Antenna



Belt Clip



o Hang Rope



User Manual

Pictures above are for reference only and may vary from actual products.

