

SGS10-D31

Main Functions

Dual Modes (Analog + Digital): SGS10-D31 can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.

Versatile Voice Calls: Intelligent signaling of SGS10-D31 supports various voice call types, including Private Call, Group Call, All Call and Emergency Call.

Vibrate (Optional): This feature is helpful in reminding you of the reception of any Private call, Call Alert or Text Message under noisy or low-volume conditions.

Various Analog Signaling Types: SGS10-D31 supports various analog signaling (DTMF Encode, CTCSS /CDCSS, 2-Tone, 5-Tone and QDC-1200), provides higher function expansion capacity.

IP Multi-site Connect and Roaming: SGS10-D31 supports communication with any other terminals as well as smooth Roaming within IP Multi-site Connect System.

Advanced Features (Optional): SGS10-D31 supports various optional advanced features including Man Down, Bluetooth and Voice Recording.

Secure Communication: SGS10-D31 provides high-level digital encryption utilizing advanced 256-bit algorithm.

Software Upgradeable: With this capability, you can enjoy further features without the need to buy a new radio.



SGS10-D31



Specifications

General	
Frequency Range	VHF: 136-174MHz UHF: 350~400MHz; 400~470MHz; 450~520MHz
Channel Capacity	1024(64 Zones×16 Channels)
Channel Spacing	25kHz (Digital) 25/20/12.5kHz (Analog)
Operating Voltage	7.4 V
Battery	3000mAh
Battery Life	Analog: Above 11 Hours (5-5-90 Duty Cycle, High TX Power) Digital: Above 15 Hours
Frequency Stability	± 1.0ppm
Antenna Impedance	50Ω
Dimensions(H×W×L)	130 × 55 × 34mm
Weight	320g
Receiver	
Sensitivity (Analog)	0.22μV (12dB SINAD) / 0.25μV (Typical) (12dB SINAD)
Sensitivity(Digital)	0.25μV/BER 5%
Intermodulation	≥ 65dB
S/N	40dB @ 12.5 kHz / 43dB @ 20kHz / 45dB @ 25 kHz
Rated Audio Power Output	1.5 W
Rated Audio Distortion	≤ 3%
Audio Response	+1~-3dB
Conducted Spurious Emission	<-57dBm
Transmitter	
RF Power Output	UHF High Power:4W / Low Power:1W VHF High Power:5W / Low Power:1W
FM Modulation	11KΦF3E @ 12.5kHz /14KΦF3E @ 20kHz / 16KΦF3E @ 25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD / 12.5kHz Data & Voice: 7K60FXW
Conducted/Radiated Emission	≤-36dBm(<1GHz)/-30dBm(>1GHz)
Modulation Limiting	≤2.5kHz @ 12.5kHz/≤4kHz @ 20kHz/ ≤5kHz @ 25kHz
FM Noise	40dB @ 12.5kHz / 43dB @ 20kHz / 45dB @ 25kHz
Adjacent Channel Power	60dB@12.5kHz/70dB@20/25kHz
Audio Distortion	≤3%
Frequency Stability	±1.0ppm
Digital Vocoder Type	AMBE 3000++
Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental Specifications	
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C~+85°C
ESD	IEC 61000-4-2 (Level 4) / ±8kV (Contact) ±15kV (Air)
U.S. Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP67 Standard
Humidity	MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	MIL-STD-810 C/D/E/F/G Standard

Accessory List

Standard Accessories

- Antenna
- Li-ion Battery
- Charge Adapter
- Desktop Charger
- Belt Clip
- Hand Strap

Optional Accessories

- Earphone
- Remote Microphone
- Programming Cable
- Leather Case



Dual Modes
With analog and digital modes.



Software Upgradeable
more further features



Voice Recording
Supports 80/160h of recording.



Secure communication
with analog/digital voice encryption.



Compliant with MIL-STD-810 C/D/E/F/G and IP67 standards.



Multiple Analog Signaling
CTCSS, CDCSS, DTMF,
2-Tone, 5-Tone, QDC1200.



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