

# **Features**

### Robust and Stylish

DP680/DP685 is compact and light weighted, and it is easy to carry and wear. The unique aluminum-alloy housing enables better wear-resisting and better heat dissipation. Compliant to MIL-STD-810 C/D/E/F/G and IP67 standards, DP680/DP685 delivers excellent performance in demanding environment.



### · Clear and Loud Voice

Equipped with an 2W optimized powerful loudspeaker, DP680/DP685 delivers clear and loud voice even in noisy environment. Al-based noise cancellation technology decreases background noise and howling by 30dB, ensuring clear and smooth voice calls.



## · Easy to Operate

Simple to use, user-friendly and intelligent to deliver better user experience. 1.8-inch color LCD screen, users can check battery status, field strength indication, and caller information at any time according to actual working scenarios. 360° rotary channel knob, convenient channel switching, programmable buttons and keys make radio operation easy and swift.

### Multi-Mode Operation

It supports analog conventional, digital conventional, MPT trunking, and DMR Tier III trunking, facilitating smooth analog-to-digital transition. Multiple advanced analog signaling, including MDC1200, DTMF, 2-Tone and 5-Tone, provides higher expansion capacity in current communication systems.

### Secure Communication

Provides basic and advanced encryption capability, including ARC4, DES, and AES256 bit encryption to further enhance the communication security.



# Long Battery Life

DP680/DP685 with standard 2000mAh battery can work up to 13-15 hours. It has 2500mAh larger battery as optional.



### Enhanced Safety

DP680/DP685 is designed to enhance safety in your organization with rapid response by a single press on the alarm. The built-in man-down and lone worker functions protect your personnel at the workplace.

### Multimedia Service

DP680/DP685 supports rich voice and data service, including all kinds of voice call, text and status message, GPS location, VOX, emergency call, priority call and all call.

### Enhanced Service

In addition to conventional communications service, DP680/DP685 provides richer enhanced service, including Tx interrupt, roaming, dual-slot pseudo trunking, kill, stun, retrive, remote monitoring, radio check, VOX, vibration, real time clock, scan etc.

Multi-function antenna, capable of GPS/BDS positioning



02

2W speaker for clear and loud voice | Superior Audio Quality Empower by 2W Speaker



03

Comfortable touch with large keypad keys | User Friendly Keypad Design





07

Emergency Alarm Key



06

360° Rotary Channel Control

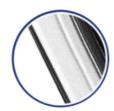


05

1.8" TFT color LCD | Intuitive UI built on 1.8" TFT Color Display



04
Concise Aluminum-alloy Design



# **Specifications**

## General

UHF: 400-470MHz
1024
248
12.5kHz/20kHz/25kHz
7.5V DC±20%
2000mAh(Standard), 2500mAh(Optional)
Analog:13.5 hours@2000mAh
Digital: 15.5 hours @2000mAh
±0.5 ppm
50Ω
123mmx55mmx33mm(2000mAh)
353g(2000mAh)
1.8inch, 5 rows(Only DP680)

# Receiver

Sensitivity Analog	0.22μV(12dB SINAD)
Sensitivity Digita	0.22µV/BER5%
Selectivity TIA-603	60dB@12.5kHz, 70dB@20/25kHz(TIA-603
ETSII	60dB@12.5kHz, 70dB@20/25kHz(ETSI)
Intermodulation	70dB@12.5kHz/25kHz(TIA-603
	65dB@12.5kHz/25kHz(ETSI)
Spurious Response Rejection	70dB@12.5/20/25kHz(TIA-603
TIA-603 ETSI	70dB@12.5/20/25kHz(ETSI)
Hum and Noise	40dB@12.5KHz, 45dB@20/25KHz
Audio Power Output	2W
Rated Audio Distortion	≤3%(typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@1GHz,-47dBm@1GHz

# Transmitter

RF Power Output	1W/4W(UHF)
FM Modulation	11K0F3E@12.5kHz14K0F3E@20kHz;
	16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD,
	12.5kHz Voice: 7K60F1E&7K60FXE Combination
	of 12.5kHz Voice and Data: 7K60F1W
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz,
	±5.0kHz@25kHz
FM Hum & Noise	40dB@12.5kHz, 45dB@20/25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@20/25kHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3 ,-4

## **Environmental**

Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC610000-4-2(Level4)
	±4kV(Contact) ±8kV(air)
American Military Standard	MIL-STD-810-C/D/E/F/G
Dust & Water Protection	IP67 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

## **GPS**

Accuracy specs are for long-term tracking5 satellites visible at nominal -130dBm)		
TTFF(Time To First Fix) Cold Start	<1 minute	
TTFF(Time To First Fix) Hot Start	10 seconds	
Horizontal Accuracy	10m	

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

### **Scenarios**











## Standard Accessories:





Belt Clip







Antenna



Adaptor

Single Unit Charger

Strap

# Optional Accessories:







Cable





Microphone





Charger (2500 mAh)

KILISUN