

**SDP760** 

simoco

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## Simoco Xd SDP760 DMR Portable Radio

The Simoco Xd SDP760 is a digital portable radio capable of operating across multiple modes, including analogue conventional, digital conventional (DMR Tier II) digital trunking (DMR Tier III) and MPT.

Best in class sensitivity ensures crystal-clear communications in fringe areas and harsh environments while a compact form factor means the radio is suitable for a wide range of users.

The SDP760 offers a rich feature set including full duplex calling, allowing for enhanced communications between office and field staff. Additional features include a large TFT Screen, GPS, long battery life and an Application Programming Interface (API)\* capable of delivering third party applications into the hands of your operational teams. Bluetooth functionality also allows for the connection of additional wireless accessories.

The radio's ability to allow the user to operate across a variety of network signature modes means it is not only a safe and future-proof investment, but also provides a cost effective and flexible migration path for organisations managing the transition from analogue to DMR digital.

## **Standard Features**

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- Four operating modes analogue conventional, digital conventional (DMR Tier II), digital trunking (DMR Tier III)\* and MPT\*
- Available in VHF and UHF frequency bands
- Exceptional RF performance exceeds ETSI and TIA-603 specifications
- 51mm Transflective TFT LCD display
- Text and status messaging
- Fully compliant with ETSI DMR standards
- MIL-STD-810 & IP67
- Single repeat mode
- Market leading 1.8W audio output
- -121dBm receiver sensitivity (typical) increase coverage area and improve audio quality
- DTMF dialing
- Group, emergency, priority and all-calls
- Vibration alert
- Authentication
- Supports lone worker alerts

## **Optional Features**

- AES encryption 256 bit\*
- Full duplex calls
- GPS
- Bluetooth connectivity supports wireless accessories
- Advanced noise reduction software for clear comms under high ambient noise conditions\*
- Man-down

\*license required



General Specification		
Frequency Bands	VHF:136–174MHz UHF:400–470MHz UHF:450-520MHz*	
Channel Capacity	DMR Tier II Channels - 1023 DMR Tier III Channels - 2300	
Channel Bandwidth	12.5/25kHz	
Dimensions (H x W x D)	125x54x35mm	
Weight	320g (Standard battery and antenn	
LCD	51 mm High Resolution QVGA TFT LCD (240x320 pixels, 262k colours)	
Operating Voltage	DC 7.3V ±15%	
Battery	Standard: 2400mAh (Li-Ion) Option: 3400mAh (Li-Ion)	
Battery (Standard battery, 5-5-90 duty cycle)	Analogue: 12hours Digital: 14hours	
Model Variant	SDP760 without GPS & Man down SDP760 with GPS & Man down SDP760 with GPS, Man down, Full Dupl and Bluetooth	
Receiver		
Digital Sensitivity	Typical: -121dBm / BER 5% Typical: -118dBm / BER 1%	
Analogue Sensitivity	Typical: -121dBm / 12dB SINAD	
Intermodulation	>70dB (TIA603) >65dB (ETSI)	
Blocking	84dB (TIA603 & ETSI)	
Spurious Response Rejection	>70dB (TIA603 & ETSI)	
Adjacent Channel Selectivity	70dB @ 25kHz (TIA603&ETSI) 60dB @12.5kHz (TIA603&ETSI)	
Conducted Spurious Emission	-57dBm (<1GHz)	

ex	Audio Response	+1 ~ -3dB
	Reliability	
	Operating Temperature	-30-+60°C
	Storage Temperature	-40-+85°C
	Dust & Water Intrusion	IP67 (IEC60529)
	Environmental Standards	MIL-STD-810 C/D/E/F/G
	ESD	IEC 61000-4-2 (level 4) ±8kV (Contact), ±15kV (Air)
	GPS	
	TTFF Cold Start	<120s
	TTFF Hot Start	<10s
	Horizontal Positioning Accuracy	<10s
	Acquisition Sensitivity	<-140dBm
	Tracking Sensitivity	<-152dBm

0.5ppm

VHF: High: Up to 5W

7K60FXD (Data Only) 7K60FXE (Data and Voice)

70dB @ 25kHz

-36dBm (<1GHz)

-30dBm (>1GHz)

3% (Analogue) 5% (Digital)

49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue

5kHz @ 25kHz 2.5kHz @ 12.5kHz

55dB @ Digital

JUL

Low: Up to 1.25W UHF: High: Up to 4.5W Low: Up to 1.25W

## **Standard Accessories**



SDP700 Series belt clip 7A0BB000Z00

Transmitter **Frequency Stability** 

**RF Power Output** 

**Digital Modulation** 

**Conducted and** 

**Radiated Emission** 

**Audio Distortion** 

Hum and Noise

Audia Deenene

tenna)

**Analogue Modulation** 

**Adjacent Channel Power** 

Transmission Deviation limits

SIMOCOXO DMR ANALOGUE SIMOCO wireless solutions

1835 E. Hallandale Beach Blvd.

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SDP700 Series single way charger

including power lead 7A0BC00SZC1-B1

Hallandale Beach

-47dBm (>1GHz)

55dB @ Digital

+1~-3dB

AMBE+2

3% (Analogue) 5% (Digital)

ETSI TS 102 361-1, -2, -3, -4

49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue

1.8W

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**Rated Audio Power Output** 

**Rated Audio Distortion** 

Hum and Noise

Audio Response

**Digital Protocol** 

Field House

Derby

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AUS

DE1 1NH

Uttoxeter Old Road

Tel UK: 08717 411 050

**Digital Vocoder Type** 



vic@simocowirelesssolutions.com

. Standard 2400 mAh Li-ion battery

7A0BAL1SZXC

AMERICAS FL 33009, USA

Specifications based on standard operating conditions. Not all frequency bands are permissible for every market area. See Simoco Wireless Solutions Product Catalogue for a full list of specifications. All specifications are subject to change without prior notice. Simoco Wireless Solutions does not accept liability for any error or omission in this document.