

SDP760

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Simoco Xd 700 Series Simoco Xd SDP760 DMR Portable Radio

The Simoco Xd SDP760 is a digital portable radio capable of operating across multiple modes, including analog 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 organizations managing the transition from analog to DMR digital.

Standard Features

Imoco

- Four operating modes analog 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

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 antenna)
LCD	51 mm transflective 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)	Analog: 12hours Digital: 14hours
Model Variant	SDP760 without GPS & Man down SDP760 with GPS & Man down SDP760 with GPS, Man down, Full Duplex and Bluetooth
Receiver	
Digital Sensitivity	Typical: -121dBm / BER 5% Typical: -118dBm / BER 1%
Analog Sensitivity	Typical: -121dBm / 12dB SINAD
Intermodulation	>70dB (TIA603) >65dB (ETSI)
Blocking	84dB (TIA603 & ETSI)
Spurious Response Rejection	>70dB (TIA603 & ETSI)
Adjacent Channel Selectivity	70dB
Conducted Spurious Emission	-57dBm (<1GHz)
	-47dBm (>1GHz)
Rated Audio Power Output	1.8W
Rated Audio Distortion	3% (Analog) 5% (Digital)
Hum and Noise	49dB @ 25kHz Analog 43dB @ 12.5kHz Analog 55dB @ Digital
Audio Response	+1~-3dB
Digital Vocoder Type	AMBE+2
Digital Protocol	FTC TC 102 261 1 2 2 4
	ETSI TS 102 361-1, -2, -3, -4

Transmitter	
Frequency Stability	0.5ppm
RF Power Output	VHF: High: Up to 5W Low: Up to 1.25W UHF: High: Up to 4.5W Low: Up to 1.25W
Digital Modulation	7K60FXD (Data Only) 7K60FXE (Data and Voice)
Analogue Modulation	16K0F3E
Adjacent Channel Power	70dB
Conducted and Radiated Emission	-36dBm (<1GHz) -30dBm (>1GHz)
Transmission Deviation limits	5kHz
Audio Distortion	3% (Analog) 5% (Digital)
Hum and Noise	49dB @ 25kHz Analog 43dB @ 12.5kHz Analog 55dB @ Digital
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	
TIFF Cold Start	<120s
TIFF Hot Start	<10s

<10s

<-140dBm

<-152dBm

Standard Accessories



Standard 2400 mAh Li-ion battery 7A0BAL1SZXC

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SDP700 Series single way charger

including power lead 7A0BC00SZC1-B1

SDP700 Series belt clip SDP700 Series wrist wrap 7A0LY000Z00 7A0BB000Z00

Horizontal Positioning

Acquisition Sensitivity Tracking Sensitivity

Accuracy

SIMOCOXd DMR ANALOG SIMOCO wireless solutions

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.