

SDP760

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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 analog conventional, digital conventional (DMR Tier II) and digital trunking (DMR Tier III).

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.

Features

- Three operating modes analog conventional, digital conventional (DMR Tier II), and digital trunking (DMR Tier III)
- Available in VHF and UHF frequency bands
- AES encryption 256 bit

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- Exceptional RF performance exceeds ETSI and TIA-603 specifications
- Full duplex calls
- 51mm Transflective TFT LCD display
- Text and status messaging
- Fully compliant with ETSI DMR standards
- MIL-STD-810 & IP67
- 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
- Supports man-down and lone worker alerts
- Supplementary services support
- Authentication
- GPS
- Bluetooth connectivity supports wireless accessories
- Advanced noise reduction software for clear comms under high ambient noise conditions
- Vibration alert



General Specification

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Frequency Bands	VHF:136–174MHz UHF:400–470MHz UHF:450-520MHz*
Channel Capacity	1024
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 @ 25kHz (TIA603&ETSI)
	60dB @12.5kHz (TIA603&ETSI)
Conducted Spurious Emission	-57dBm (<1GHz)
	-47dBm (>1GHz)
Rated Audio Power Output	-4/dBm (>TGHZ) 1.8W
Rated Audio Power Output Rated Audio Distortion	, ,
•	1.8W
Rated Audio Distortion	1.8W 3% (Analog) 5% (Digital)
Rated Audio Distortion	1.8W 3% (Analog) 5% (Digital) 49dB @ 25kHz Analog
Rated Audio Distortion	1.8W 3% (Analog) 5% (Digital) 49dB @ 25kHz Analog 43dB @ 12.5kHz Analog
Rated Audio Distortion Hum and Noise	1.8W 3% (Analog) 5% (Digital) 49dB @ 25kHz Analog 43dB @ 12.5kHz Analog 55dB @ Digital

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	

-30-+60°C **Operating Temperature** -40-+85°C Storage Temperature **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 **Horizontal Positioning** <10s Accuracy **Acquisition Sensitivity** <-140dBm **Tracking Sensitivity** <-152dBm

For summer 2017 release

Standard Accessories



Standard 2400 mAh Li-ion battery 7A0BAL1SZXC

SDP700 Series single way charger including power lead 7A0BC00SZC1-B1

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





