

SIMOCO wireless solutions

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 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.

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

- 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 frequency 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
- Man-down
- *license required



General Specification		Transmitter
Frequency Bands	VHF:136–174MHz UHF:400–470MHz	Frequency Stability RF Power Output
Channel Capacity	DMR Tier II Channels - 1023 DMR Tier III Channels - 2300	in rower output
Channel Bandwidth	12.5/25kHz	
Dimensions (H x W x D)	125x54x35mm	Digital Modulation
Weight	320g (Standard battery and antenna)	Analogue Modulati
LCD	51 mm High Resolution QVGA TFT LCD (240x320 pixels, 262k colours)	Adjacent Channel P
Operating Voltage	DC 7.3V ±15%	
Operating Voltage		Conducted and
Battery	Standard: 2400mAh (Li-Ion) Option: 3400mAh (Li-Ion)	Radiated Emission
Battery**	Analogue: 12hours	Transmission Devia
(Standard battery, 5-5-90 duty cycle)	Digital: 14hours	Audio Distortion
		Hum and Noise
Model Variant	SDP760 with GPS, Man down and Full Duplex (Bluetooth available on request)	
	(Diactooth available on request)	Audio Response
Receiver		Reliability
Digital Sensitivity	Typical: -121dBm / BER 5%	Operating Tempera
Digital Scholary	Typical: -118dBm / BER 1%	Storage Temperatu
Analogue Sensitivity	Typical: -121dBm / 12dB SINAD	Dust & Water Intrus
Intermodulation	>70dB (TIA603) >65dB (ETSI)	Environmental Stan
Blocking	84dB (TIA603 & ETSI)	
Spurious Response Rejection	>70dB (TIA603 & ETSI)	ESD
Adjacent Channel Selectivity	70dB	GPS
Conducted Spurious Emission	-57dBm (<1GHz)	
	-47dBm (>1GHz)	TTFF Cold Start
Rated Audio Power Output	1.8W	TTFF Hot Start
Rated Audio Distortion	3% (Analogue) 5% (Digital)	Horizontal Position
-	49dB @ 25kHz Analogue	Accuracy
Rated Audio Distortion	49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue	Accuracy Acquisition Sensitiv
Rated Audio Distortion Hum and Noise	49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue 55dB @ Digital	Accuracy
Rated Audio Distortion	49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue	Accuracy Acquisition Sensitiv

Iransmitter		
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% (Analogue) 5% (Digital)	
Hum and Noise	49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue 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		
TTFF Cold Start	<120s	
TTFF Hot Start	<10s	
Horizontal Positioning Accuracy	<10s	
Acquisition Sensitivity	<-140dBm	
Tracking Sensitivity	<-152dBm	

Standard Accessories



Digital Protocol



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

Standard 2400 mAh Li-ion battery 7A0BAL1SZXC

SDP700 Series single way charger including power lead 7A0BC00SZC1-B1 SDP700 Series belt clip 7A0BB000Z00







**Battery performance is dependant on temperature and operational configuration. 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.