



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) 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 organisations managing the transition from analogue to DMR digital.

Features

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

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 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 Duplex 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) -47dBm (>1GHz)
Rated Audio Power Output	1.8W
Rated Audio Distortion	3% (Analogue) 5% (Digital)
Hum and Noise	49dB @ 25kHz Analogue 43dB @ 12.5kHz Analogue 55dB @ Digital
Audio Response	+1 ~ -3dB
Digital Vocoder Type	AMBE+2
Digital Protocol	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 @ 25kHz 11K0F3E @ 12.5kHz
Adjacent Channel Power	70dB @ 25kHz 60dB @ 12.5 kHz
Conducted and Radiated Emission	-36dBm (<1GHz) -30dBm (>1GHz)
Transmission Deviation limits	5kHz @ 25kHz 2.5kHz @ 12.5kHz
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

*For summer 2017 release

Standard Accessories



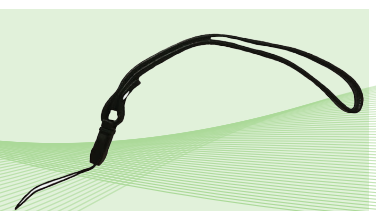
Standard 2400 mAh Li-ion battery
7A0BAL1SZXC



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



SDP700 Series belt clip
7A0BB000Z00



SDP700 Series wrist wrap

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UKHQ
AUSHQ

Field House
Uttometer Old Road
Derby
DE1 1NH
Tel UK: 08717 411 050
Tel International: +44 (0) 1332 375 500
Email: customer.service@simocogroup.com
1270 Ferntree Gully Rd
Scoresby, VIC 3179
Tel: +61 (0) 3 9730 3999
Fax: +61 (0) 3 9730 3964
Email: vic@simocogroup.com

AMERICAS

Gary Correia
Mobile: +1 619 405 8926
Email: gary.correia@simocogroup.com
Carlos Chajin
Mobile: +1 954 2532 929
Office: +1 305 722 1140
Email: carlos.chajin@simocogroup.com

simocoXd DMR ANALOGUE

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www.simocogroup.com

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.
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