

## simoco

## Simoco Xd 700 Series

Simoco Xd SDM730 DMR Mobile Radio

The Simoco Xd SDM730 is a digital mobile radio terminal 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 features including full duplex calling capabilities, allow for enhanced communications between office and field staff. Additional features include a large TFT Screen, Bluetooth functionality, GPS and a rich Application Programming Interface (API)\* capable of delivering third party applications into the hands of your operational teams.

The industrial temperature specification, military test specs, IP 54 rating, noise reduction and 5W audio level mean it is well suited for communication in harsh environments.

The SDM730'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
- Exceptional RF performance exceeds ETSI and TIA-603 specifications
- Full duplex calls
- 71mm Transflective TFT LCD display
- Text and status messaging
- Fully compliant with ETSI DMR standards
- MIL-STD-810 & IP54

-121dBm receiver sensitivity (typical) – increase coverage area and improve audio quality

- DTMF dialing
- Group, emergency, broadcast and all-calls
- Text and status messaging
- Lone worker support
- Supplementary services support
- Authentication
- ► GPS
- Bluetooth module enables connection of wireless 3rd party audio accessories
- Advanced noise reduction software for clear comms under high ambient noise conditions









Frequency Stability	0.5ppm
RF Power Output	Selectable levels; 45/25/5 W (45 W model) or 25/5 W (25 W model)
Digital Modulation	7K60FXD (Data Only) 7K60FXE (Data and Voice)
Analog Modulation	16K0F3E @ 25kHz 11K0F3E @ 12.5kHz
Adjacent Channel Power	70dB @ 25kHz 60dB @ 12.5kHz
Conducted and Radiated Emission	-36dBm (<1 GHz) -30dBm (>1 GHz)
Transmission Deviation limits	5kHz @ 25kHz 2.5kHz @ 12.5kHz
Audio Distortion	3% (Analog) 5% (Digital)
Audio S/N	48dB @ 25kHz Analog 42dB @ 12.5kHz Analog 55dB @ Digital
Audio Response	+1~ -3dB
Reliability	

**Transmitter** 

Receiver	
Digital Sensitivity	Typical: -121dBm/BER 5% Typical: -118dBm/BER 1%
Analog Sensitivity	Typical: -121dBm/12dB SINAD
Intermodulation	>75dB (TIA603) >70dB (ETSI)
Blocking	>95dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Adjacent Channel Selectivity	70dB @ 25kHz (TIA603&ETSI) 60dB @ 12.5kHz (TIA603&ETSI)
<b>Conducted Spurious Emission</b>	-57dBm (<1GHz) -47dBm (>1GHz)
Rated Audio Power Output	5W (Full Duplex) 6.2W (Half-Duplex)
Rated Audio Distortion	3% (Analog) 5% (Digital)
Hum and Noise	48dB @ 25kHz Analog 42dB @ 12.5kHz Analog 55dB @ Digital
Audio Response	+1 ~ -3dB
Digital Vocoder Type	AMBE+2
Digital Protocol	ETSI-TS102 361 -1, -2,-3,-4

Reliability		
Operating Temperature	-30 - +65°C	
Storage Temperature	-40 - +85°C	
Dust & Water Intrusion	Radio Body: IP54 Control Head: IP67	
Environmental Standards	MIL-STD-810 C/D/E/F/G Standard	
ESD	IEC 61000-4-2 (1evel 4) ±8kV (Contact). ±15kV (Air)	release
GPS		
TIFF Cold Start	<120s	2017
TIFF Hot Start	<10s	
Horizontal Accuracy	<10m	summer
Acquisition Sensitivity	<-140dBm	s.
Tracking Sensitivity	<-152dBm	*For

**Standard Accessories** 

Mounting bracket 7A0CM02S564

Palm Microphone 7A0CM02S564

Power Cord 7A0DC000Z00

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