

simocoXd

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Digital voice and data capabilities

Flexible vehicle deployment

DMR Tier II conventional and Tier III trunked

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**Digital Mobile**



# // Digital Mobile



Available for DMR Tier II conventional, DMR Tier III trunked and analogue modes of operation, Simoco Xd mobiles combine digital voice and data with flexible vehicle installation options. Digital voice clarity, instant text and status messaging are a core part of this digital system.

In-vehicle radio equipment must put communications tools in front of the user in the right place for ease of use without distraction.

The SDM600 series provides two purpose designed control heads that are separate from the radio and can be mounted in optimal positions, with the radio module itself secured out of the way. These control heads provide flexible use of the radio system with at least four programmable keys for immediate access to frequent tasks.

#### **Cost Effective**

The SDM610 is a combined controller and microphone that puts the essentials of voice calls and status messaging right where the user needs them. The compact design with accessible function keys and simple display gives the users the right information and the right control over their communications, making the radio simple to operate in critical communications situations.

#### **Full Control**

The SDM622 controller microphone features a multi-line graphic display and full keypad. The SDM622 offers the user high levels of functionality with generous space for visual information and text messages.

The rugged construction, practical design, and wide range of configurable features make it ideally suited to the mission critical mobile communications environment.

#### **Advanced Operation with Full Keypad**

The SDM630 advanced control head provides a full keypad and large display to provide the user with clear call and data information in the vehicle.

The full keypad enables free form dialling with the additional features of full text message composition. The keypad buttons can also be configured to perform press 'n' hold functions for frequent tasks.

#### **Customisable**

Simoco Xd mobiles are designed to be highly configurable, allowing customisation to fulfil a wide range of organisational needs.

From programmable keys to digital input and outputs, the SDM600 family of mobiles is suitable for a wide range of vehicle and fixed mounted applications.

#### **Flexible Installations**

Installers can mount the mobile transceiver securely and alongside existing cabling to minimise vehicle modification, whilst the remote head can be mounted for optimal use by the operator without encroaching on their comfort or safety.



# // Features and Benefits

## SDM600 Range

- 1 W to 25 W output power
- Quick mount bracket available
- IP54 ingress protection
- Connectors placed for ease of installation
- 100 (SDM610), 2000 (SDM622 and SDM630) channels
- Status and Short Data/Text Messaging, compliant with ETSI standards

### Standard Package Includes:

- Radio transceiver
- Microphone or Control Head
- Loudspeaker
- Microphone hanging bracket
- Fused power cable
- Quick reference guide
- 2-Year standard warranty

## SDM610 Control Microphone

- 4 programmable buttons
- Clear 6 character display
- IP54 ingress protection
- Bracket for easy mounting
- Ergonomic design
- Dedicated emergency button



## SDM622 Controller Microphone

- Multi-line graphic display
- 12 button alphanumeric keypad
- 6 programmable buttons
- IP54 ingress protection
- Volume Up/Down controls
- Dedicated emergency button



## SDM630 Control Head

- Intuitive menu-based interface
- Large clear 5-line display
- IP54 ingress protection
- 11 programmable direct function buttons
- Full dial pad
- 2 call buttons
- Dedicated emergency button



# // Simoco Xd - Specifications



## General

Frequency	AC (136-174 MHz), TU (400-480 MHz), UW (440-520 MHz)
Dimensions	(transceiver only) 152 x 48 x 212 mm
Power Supply	10.8 – 16.3 V DC
Standby Power Consumption	3 W
Receive Only Power Consumption	16 W (4 W audio output)
Transmit Power Consumption	82 W (25 W RF)
Frequency Stability	0.5 ppm
Channel Spacing	12.5 kHz, 25 kHz
Channel Capacity	100 (SDM610), 2000 (SDM622 and 630)
Weight	1.2 kg
Emission masks	7K60FXD (data), 7K60FXE (voice), 7K60F1W (voice and data) for 4FSK digital modulation, 11K0F3E for 12.5 kHz modulation

## Transmitter

RF Output Power	1 – 25 W
Modulation Limiting	+/-2.5 @ 12.5 kHz, +/-5.0 kHz @ 25 kHz
FM Hum and Noise	40 dB (TIA-603-B)
Conducted / Radiated Emission	Complies with ETS086-1 / ASNZS4295 / TIA603-B
Adjacent Channel Power	-60 dBc (ETS086-1)
Audio Response	+1/-3 dB
Audio Distortion	4% @ 4 W
Digital Vocoder	AMBE+2

## Receiver

Analogue Sensitivity	-117.5 dBm (12 dB SINAD)
Digital Sensitivity	-117.5 dBm (BER 1%)
Intermodulation	65 dB (70 dB typ. ETS086-1)
Adjacent Channel Selectivity	65 dB (ETS086-1)
Spurious Rejection	70 dB (ETS086-1)
Hum and Noise	40 dB (TIA603-B)
Audio Response	+1/-2 dB (0.3-2.55 kHz)
Audio Distortion	5% @ 4 W
Conducted Spurious Emission	-57 dBm (ETS086-1)

## Environmental

Storage Temperature	-40°C to +80°C
Operating Temperature	-30°C to +60°C
IP Rating / Humidity	IP54

Specifications based on standard operating conditions. Not all combinations of frequency bands and options 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.



Field House  
 Uttoxeter Old Road  
 Derby  
 DE1 1NH  
 Tel UK: 08717 411 050  
 Tel International: +44 (0) 1332 375 500  
 customer.service@simocowirelessolutions.com

**AMERICAS** 1835 E. Hallandale Beach Blvd.  
 Hallandale Beach  
 FL 33009, USA  
 americas@simocowirelessolutions.com

1270 Ferntree Gully Rd  
 Scoresby, VIC 3179  
 Tel: +61 (0) 3 9730 3999  
 Fax: +61 (0) 3 9730 3964  
 vic@simocowirelessolutions.com

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