

// Simoco Xd - Specifications



General

Frequency	AC (136-174 MHz), TU (400-480 MHz), UW (440-520 MHz)
Dimensions	(transceiver only) 127 x 50 x 212 mm
Power Supply	10.8 - 16.3 V DC
Standby Power Consumption	3 W
Receive Only Power Consumption	16 W (4W 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 (SDM630)
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	40dB (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	5% @ 4 W
Digital Vocoder	AMBE+2

Receiver

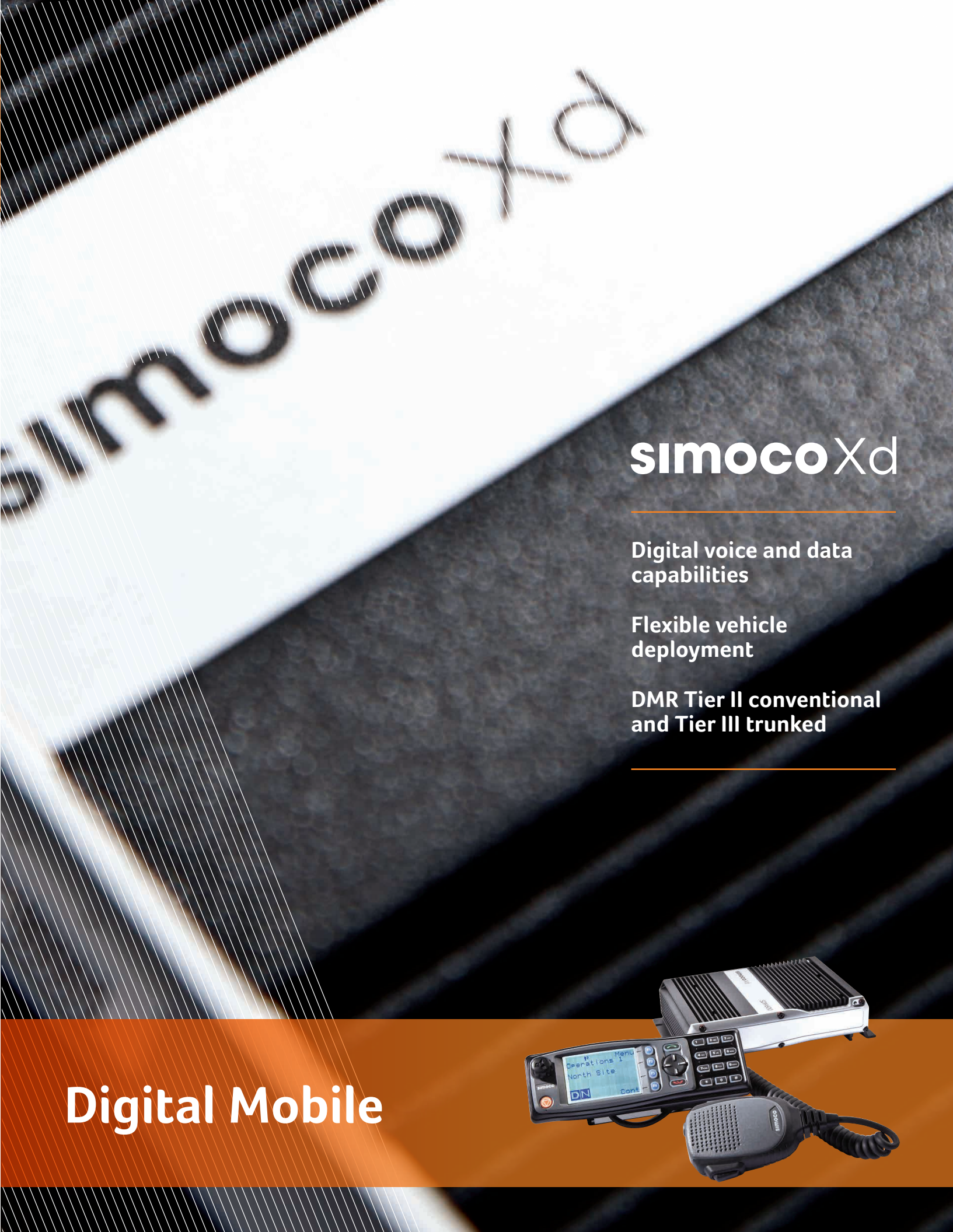
Analog Sensitivity	-117.5 dBm (12dB SINAD)
Digital Sensitivity	-117.5 dBm (BER 1%)
Intermodulation	65 dB (70dB typ. ETS086-1)
Adjacent Channel Selectivity	65 dB (ETS086-1)
Spurious Rejection	70 dB (ETS086-1)
Hum and Noise	40 dB (TIA603-B)
Audio Response	+1/-2 dB (0.3-2.55 kHz)
Audio Distortion	5% @ 4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

All specifications are subject to change without prior notice.

For more information please contact your local Simoco representative:



simocoXd

Digital voice and data capabilities

Flexible vehicle deployment

DMR Tier II conventional and Tier III trunked

Digital Mobile



// Digital Mobile



// Features and Benefits

Available for DMR Tier II conventional, DMR Tier III trunked and analog 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.

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.

Customizable

Simoco Xd mobiles are designed to be highly configurable, allowing customization to fulfil a wide range of organizational 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 minimize vehicle modification, whilst the remote head can be mounted for optimal use by the operator without encroaching on their comfort or safety.

SDM600 Range

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

Standard Package Includes:

- Radio transceiver
- Fused power cable
- Speaker
- Microphone
- Control head extension cable
- Mounting cradle
- Quick reference guide
- 3-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



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

