

simoco

simocoXd
CONNECTIONS THAT COUNT

Digital voice and data capabilities

Flexible deployment in vehicle

Supports DMR Tier II and Tier III

Digital Mobile



// Digital Mobile



Capable of analogue, DMR Tier II and DMR Tier III modes of operation, Simoco Xd DMR 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 4 programmable keys for immediate access to essential activities. This enables urgent communications without distracting the operator and leverages the full benefits of the digital radio system.

Cost Effective

The SDM610 is an entry level controller microphone that puts the essentials of voice calls and status messaging right where the user needs it. 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 urgent communications situations.

Advanced Operation with Full Keypad

The SDM630 advanced control head provides for extended applications and messaging at the user's fingertips. Designed to push instant messaging, dispatch, telemetry and control applications out to the mobile user, this radio expands their abilities beyond voice communications.

The full keypad enables enhanced dialling, giving access to any radio, group or further to telephone networks. Other features include full text message composition, 12 additional programmable keys with press 'n' hold.

Customisable

Because each organisation's needs are different, Simoco Xd mobiles are enhanced for wide-ranging customisation. From programmable keys (4 in the SDM610 and 18 in the SDM630) to an I/O expansion board, and further options for integrating with systemwide applications, the SDM600 family of mobiles is developed from Simoco's experience with a wide range of custom projects.

Excellent 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.

Uncompromising Operation

Whether you are installing in a heavy duty haul truck, aircraft pushback tractor, train cab or the works van users can make the communications solution directly available to the user without compromising control of the other elements within the vehicle.



// Features that make connections count

SDM600 Range

- 1W to 25W output power
- Quick mount bracket available
- IP54 ingress protection
- Connectors placed for ease of installation
- 2000 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



SDM630 Control Head

- Intuitive menu-based interface
- Large clear 5-line display
- IP54 ingress protection
- 6 programmable function buttons
- 12 functions associated with long key presses
- 2 dedicated call buttons



// Simoco Xd - Specifications



General	
Frequency	AC (136-174MHz), TU (400-480MHz)
Dimensions	(transceiver only) 127 x 50 x 212 mm
Power Supply	10.8 – 16.3VDC
Standby Power Consumption	3W
Receive Only Power Consumption	16W (4W audio output)
Transmit Power Consumption	82W (25W RF)
Frequency Stability	+/- 0.5ppm
Channel Spacing	12.5kHz, 25kHz
Channel Capacity	2000
Weight	1.2 kg
Emission masks	7K60FXD (data), 7K60FXE (voice), 7K60F1W (voice and data) for 4FSK digital modulation, 11K0F3E for 12.5kHz modulation

Transmitter	
RF Output Power	0.5 – 25W
Modulation Limiting	+/-2.5 @ 12.5kHz, +/-5.0 kHz @ 25kHz
FM Hum and Noise	40dB (TIA-603-B)
Conducted / Radiated Emission	Complies with ETS086-1 / ASNZS4295 / TIA603-B
Adjacent Channel Power	-60dBc (ETS086-1)
Audio Response	+1/-3dB (analogue)
Audio Distortion	3% (TIA-603-B)
Digital Vocoder	Type AMBE+2 half rate

Receiver	
Analogue Sensitivity	-117.5dBm (12dB SINAD)
Digital Sensitivity	-117.5dBm (BER 1%)
Intermodulation	65dB (70dB typ. ETS086-1)
Adjacent Channel Selectivity	65dB (ETS086-1)
Spurious Rejection	70dB (ETS086-1)
Hum and Noise	40dB (TIA603-B)
Audio Response	+1/-2dB (0.3-2.55kHz analogue)
Audio Distortion	3% @ 4W Analogue Mode
Conducted Spurious Emission	-57dBm (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:

