

simocoXd
CONNECTIONS THAT COUNT

SDB670 DMR BASE STATION



// DMR Base Station

Supporting instant push-to-talk voice communications and VoIP telephone connectivity as well as open-standards applications support, the Simoco Xd digital base station is more than just a radio repeater. Each SDB670 forms the bridge between groups of radios and extends this to the world of IP.

The SDB670 builds on the highly successful and widely deployed Xfin blade, combining RF elements and control intelligence in one box for a unique architecture that has been proven in systems from a single base station to many hundreds.

DEPENDABLE COMMUNICATIONS




Simoco Xd uses a tried and tested all-IP architecture, which has been deployed in a range of business-critical applications for many years. This architecture offers resilience at the network level, by distributing control functions among all base stations in the network.

Integrated telephone interconnect in each base station means that there are fewer network components to fail and less spares holding required.

Remotely configurable base stations ensure that outages are less likely, have less impact on communications and are faster and simpler to resolve.

IMPROVED USER EXPERIENCE

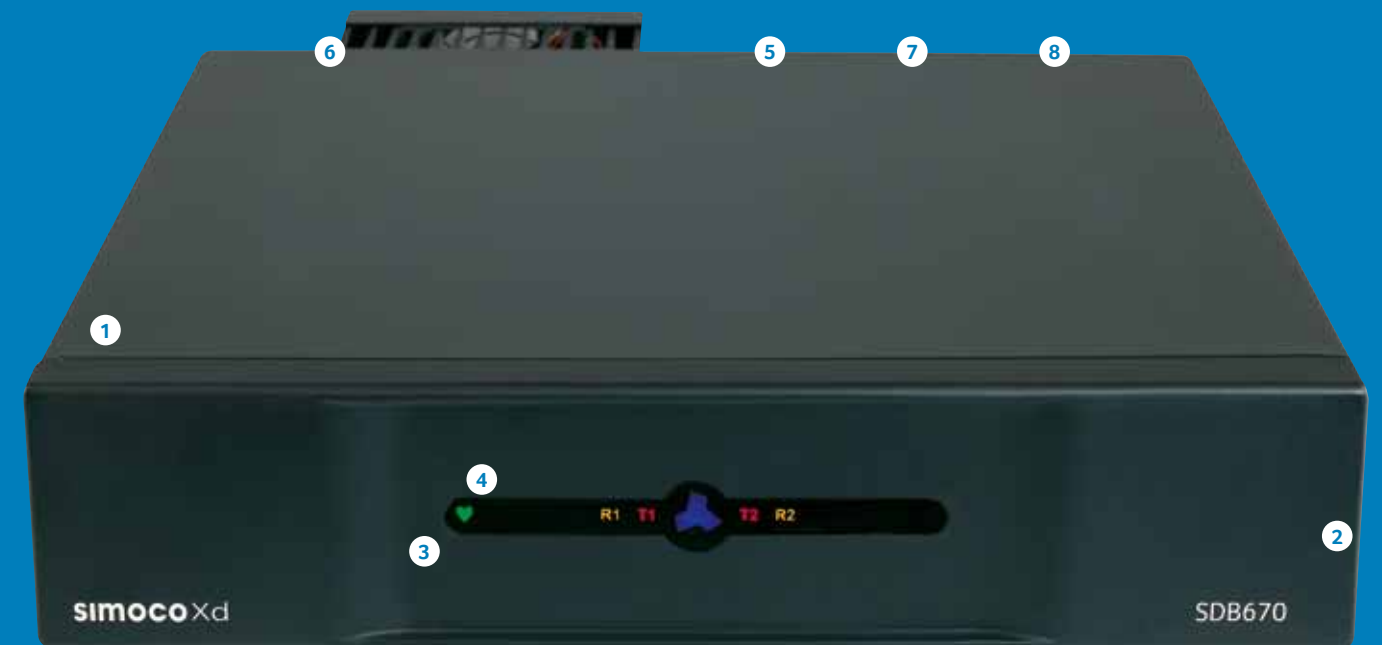
The IP connection of the SDB670 Base Station inherently supports a wide variety of advanced features:

-  **Dispatcher** – The Simoco Xd Dispatcher is available for simple direct IP connection to the BS and provides voice, messaging and radio-system health monitoring information to PC-based operators.
-  **3rd Party Applications** – Simoco work with third-parties to integrate their products with the radio system and support the wider availability of this interface.
-  **Configuration & Monitoring** – IP for configuration and monitoring allows these activities to be carried out anywhere within your network, from a direct connection alongside the SDB670 to via VPN many miles away. Enabling you to administer the system the way you want to.

INTEGRATED TELEPHONY

Telephone and radio communications naturally sit together, so Simoco provide telephone connectivity directly from within all base stations. The SDB670 implements this by a direct SIP/VoIP connection, without the need for a gateway between the radio and telephone systems, and without compromising the features of either system.

// Features



1. Compact 2U size
2. Optional rack mountings for desktop or rack-mounted use
3. Easily identifiable indications for transmit & receive in both slots
4. Health and alarms are clear at-a-glance, with further information available via IP management application
5. Integrated Power Supply
6. 100% Duty Cycle at 25W
7. IP connectivity for applications interface, configuration, monitoring, telephony and trunking support
8. Programmable facilities connector

// Simoco Xd - Specifications

GENERAL

Frequency	AC (136-174MHz), TU (400-480MHz)
Power Supply	12V DC or 110/240V AC
Frequency Stability	+/-0.5ppm
Channel Spacing	12.5kHz, 25kHz
Channel Capacity	2000

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 (analog)
Audio Distortion	3% (TIA-603-B)
Digital Vocoder Type	AMBE+2 half rate

RECEIVER

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

ENVIRONMENTAL

Storage Temperature	-40°F to +176°F
Operating Temperature	-22°F to +131°F

All specifications are subject to change without prior notice.



Simoco Americas

T: +1 877 848 3876

E: customerservice@teamsimoco.com

W: www.simocoamericas.com



For more information please contact your local Simoco Authorized Dealer: