

For more info please contact one of our global representatives...

EUROPE

EMEA / Asia T: +44 1332 375 550 E: customerservice@teamsimoco.com

AMERICAS

USA / Canada T: +1 619 435 7031 E: customerservice@teamsimoco.com

Mexico, Central, South America and Caribbean T: +1 954 253 2929

E: customerservice@teamsimoco.com

AUSTRALASIA

Australia / New Zealand T: +61 397 303 800 E: comgroup@comgroup.net.au

FAR EAST

China T: +86 10 6582 0051 E: customerservice@teamsimoco.com

Taiwan

T: +886 922 470 697 E: customerservice@teamsimoco.com

simoco

SB2025NT P25 Simulcast / Voting Base Station

Enabling Solutions in Simulcast Technologies Auto Set-Up and Synchronisation

Remote Management Lowest Lifecycle Costs







Asimoco

Simoco is committed to service and innovation with a proud 90 year history. Our state of the art product development facilities, extensive P25 product range and our experience in emergency service applications including police, fire, ambulance and other emergency organisations make Simoco an expert partner in public safety communications.



SIMOCO P25 SOLUTIONS - POWERED BY DALMAN SIMULCAST

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Spectrum efficient solutions for wide area coverage



SB2025NT Base Station **Compact P25 Simulcast / Voting Base Station**

Simoco is committed to service and innovation with a proud 90 year history. Our state of the art product development facilities, extensive P25 product range and our experience in emergency service applications including police, fire, ambulance and other emergency organisations make Simoco an expert partner in public safety communications.

The SB2025NT Simulcast Base Station offers market leading P25 performance in a robust, reliable yet compact 2U form.

Designed and built to exceed industry standards and all international specifications it is available in the widest range of frequency bands.



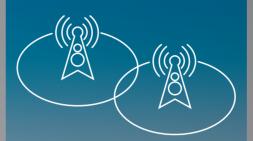
Building on the plug and play principles of analogue Solar 25 simulcast systems, SB2025NT integrated simulcast and voting controller offers enhanced resilience and full remote management of base station network, while interfacing in a cost effective, compact component based P25 system.

With a cost advantage that extends the benefits of simulcast to dealers and customers previously excluded by the cost and complexity of the technology. With Dalman Solar 25 inside, P25 simulcast solutions are brought within YOUR reach.

SB2025NT Overview

- Simulcast technology synchronises duplicated channels in a wide area network to avoid interface between adjacent radio sites.
- Solar 25 digital VoIP signals are better defined and more consistent than their analogue counterparts, enabling the synchronisation task to be 'processor controlled'.
- SB2025NT incorporates an RSSI voter which can operate in talk through mode with simulcast transmit.
- Revolutionary, economic deployment and support; enabling automatic set up and remote management to replace specialist knowledge, costly test equipment, and on-site maintenance - dramatically reducing lifecycle costs.

Architecture



cast over IP sol ions leverage the inh ency and clarity of definition of digital signals to simplify ast synchronisation to an automatic 'processor controller ineans that Simoco Solar 25 is fu neans that Simoco Solar 25 is fu e and support and can be deploy work.

Component Based Design

A component based system, incorporating optional traffic manager and network interface nodules. Each SB2025NT unit accommodates a GPS receiver to provide the timing source throughout the network, and up to one Traffic Manager Module and two Network Interface modules, making the system extremely compact, flexible and cost effective. Units can then be located throughout the network and configured to the specific requirements of each customer cell tion

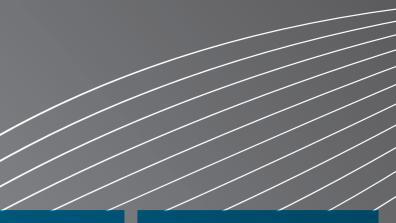
Processor-controlled synchronisation, Auto Set-Up and Remote Management mean Solar 25 is fundamentally easie to deploy and manage. With its compact, component based design, we're confident that Solar 25 offers the lowest lifecycle costs.

Network Interface Module Network Interfaces are DFSI compliant with dispatch consoles and applications such as AVL systems and voice recorders.

Traffic Manager Module The Traffic Manager module provides the synchronisation and supervisory functions through the network and can be duplicated to provide distributed resilience of these essential functions.

1. General Antenna Connections Modulation Channel Spacing Channels Dispatche Supply Voltage DFSI **Operating Temperature** Frequency Physical Size 2. Transmitte Power Output Frequency Stability Symbol Deviation Apps Modulation Fidelity DFSI 3. Receiver Ethernet/IP Sensitivity Audio Bandwidth Intermodulation Immunity Distortion 4. APCO P25

5. Options







Simoco Solar simulcast over IP solutions leverage over 25 years of dedicated simulcast engineering, research and development in the Dalman Labs and are innovati d to realise the advantages of digital technology in usiness and cost benefits.

Integrated Voting

Receiver selection or receiver voting is conducted in the digital domain within the Traffic Manager. In the noise free digital IP environment no further signal evaluation is necessary which means that the IP data packets contain both the received audio and . signal quality information together, greatly reducing voter rise time.

SB2025NT Simulcast / Voting Base Station Specifications

Rx,Tx both N type female
Analogue - Direct FM two point method / Digital - C4FM
Analogue - Programmable 25/12.5 kHz / Digital - 12.5kHz
255 DFSI selectable
13.8 +/- 20% or optional AC mains input
- 30 to +60°C (-22° to 140°F)
135-160 MHz, 148-174 MHz, 850-870 MHz (Tx) / 805-825 MHz (Rx)
2RU Height x 19" rack mount
100W
1.5PPM

Better than - 117dBm for 12dB SINAD, typ -120dBm. 2<u>5 - Better than -</u> 117dBm for 5% BER 00Hz to 3000Hz (+1,-3dl

Mixed mode repeat - analogue and digital. NAC can be unchanged or defined
Transparent P25 repeat - passes encrypted voice transparently
DFSI interface option for IP connected dispatch console
Remote diagnostics
Front panel status indicators