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**SB2025C**  
**Compact P25 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.



*Compact P25 Base Station with highly configurable deployment options...*



For additional information on this and other Simoco products visit our website:  
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**SIMOCO P25 SOLUTIONS**

# SB2025C

## Compact P25 Base Station

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The SB2025C 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.

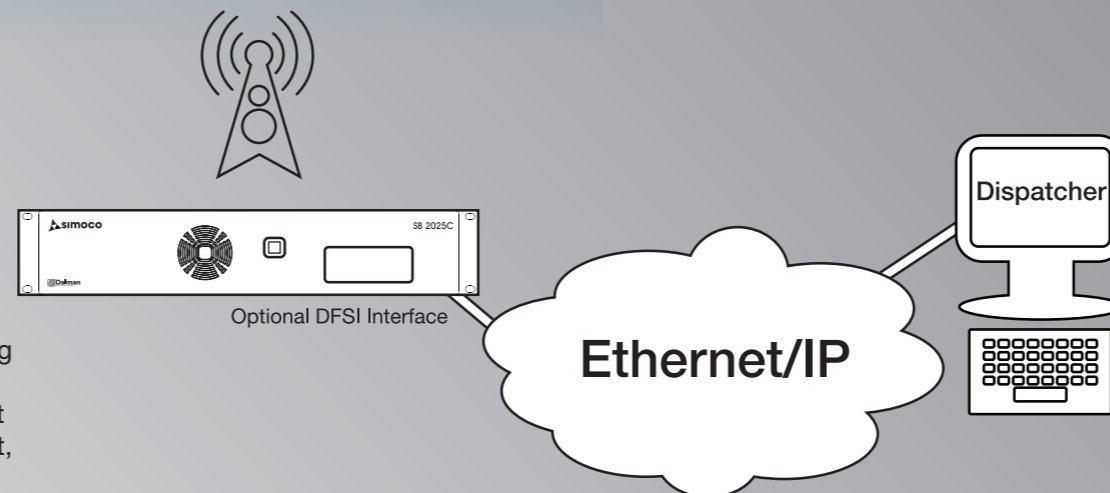


### PERFORMANCE & RELIABILITY

Advanced component, surface mount technology, encased in a rugged machined module, with an optimised PA heatsink to reduce transmitter temperature rise, combine to ensure SB2025C's outstanding performance and reliability under the harshest conditions and in continuous operation.

The sensitive receiver features a wide switching bandwidth while maintaining good blocking, intermodulation and adjacent channel performance. The broadcast transmitter exciter module has very low spurious emission levels, and is followed by an efficient RF power amplifier.

- Wide range of frequency bands available
- Per channel programmable parameters, including: frequency, power, NAC/TGID, RF mode and channel bandwidth.
- Compatible with Simoco's IP connected Solar system (in non-simulcast mode)
- 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.
- Optional feature upgrades available using software key



Simoco Solar Compatible



#### 1. General

Antenna Connections	Rx,Tx both N type female
Modulation	Analogue - Direct FM two point method Digital - C4FM
Channel Spacing	Analogue - Programmable 25/12.5 kHz Digital - 12.5kHz
Channels	255 DFSI selectable
Supply Voltage	13.8 +/- 20% or optional AC mains input
Operating Temperature	- 30 to +60°C (-22° to 140°F)
Frequency	135-160 MHz, 148-174 MHz, 850-870 MHz (Tx) / 805-825 MHz (Rx)
Physical Size	2RU Height x 19" rack mount

#### 2. Transmitter

Power Output	100W
Frequency Stability	1.5PPM
Symbol Deviation	1.8kHz
Modulation Fidelity	Less than 3%

#### 3. Receiver

Sensitivity	Better than - 117dBm for 12dB SINAD, typ -120dBm. P25 - Better than - 117dBm for 5% BER
Audio Bandwidth	300Hz to 3000Hz (+1,-3dB)
Intermodulation Immunity	Better than 82dB blocking better than 100dB at +/- 1MHz point
Distortion	Less than 2% @ 60% deviation

#### 4. APCO P25

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

#### 5. Options

- 4-wire analogue dispatch console interface (via central NI)
- Redundancy (duplicate base station required)
- SNMP traps