



CPX BST250

Wireless Base Station

*Engineered for Reliable and Clear Communication
In High-Noise Environments*

The CPX Wireless Intercommunication System is built on Axnes' next-generation technology platform and engineered for **mission-critical aviation operations** and **passenger transport**. Designed to elevate both **full-duplex** crew communication and Passenger Address (PA) capabilities, CPX delivers certified performance, **high speech intelligibility**, improved comfort, and **seamless integration** within today's advanced aircraft cabins. Leveraging more than 30 years of Axnes wireless innovation, the CPX system combines proven ruggedness with **cutting-edge digital technology**.

The BST250 distinguishes itself through its **compact form factor**, making installation effortless even in space-constrained aircraft environments. It delivers **dual-zone wireless coverage**, ensuring reliable communication throughout the cabin and mission areas.

Engineered for flexibility, the BST250 **integrates seamlessly** with wired intercom systems, PA systems, and external radios – or operates entirely standalone to create a robust wireless communication bubble. **Third-party integrations** across a broad range of digital protocols could be implemented based on customer interest. **Fully EASA certified**, it provides operators with trusted, aviation-grade compliance.

CPX SYSTEM FEATURES

- Operating in unlicensed frequency band 1880-1930 MHz, regional dependencies
- Secure encrypted waveform
- Typical 250 m LOS range
- Low latency (“lip-sync”)
- Flexible and scalable design

MECHANICS

- Dimensions: 132 x 62 x 32 mm (plus microphone)
- Weight 260 g
- Chassis made of aluminium
- Delivered with bracket for horizontal or upright mounting

POWER

- Redundant 28 VDC aircraft power

CPX PRODUCT COMPATIBILITY

- Intercom headset HS250
- PA and entertainment headset HS200

TARGETED REGIONS

- Europe
- UK
- North America
- Australia
- Brazil
- More TBD

WIRED INTERFACES

- High-density DSUB-44, male
- 2x SMA antenna outputs, female
- USB-C service port for administration

WIRELESS INTERFACE

- WLAN for administration

HMI – General

- LED indicating connection and power status

ANTENNAS

- Directional flat panel antenna for indoor installation, via cable
- Whip antenna, on base station

THIRD-PARTY DIGITAL INTEGRATION OPTIONS

- Ethernet
- RS232
- RS485

INTERCOM

- Up to three full-duplex isolated communication groups
- Controls up to 50 simultaneously connected headsets
- Two analogue line interfaces
- 2x PTT input signals
- 4x PTT output signals
- Audio MUTE input signal
- Audio BROADCAST input signal

GENERAL

- Highly configurable to support customized installations
- IP40 rating
- DO-160G
- Operating temperature: -45 to +70 °C

BST250 – Member of the CPX Product Family

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AX-PMG-SLIS-0111-IssueA