

CPX HS250

Wireless Headset for Intercommunication

*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 HS250 stands out with its protective **high passive noise attenuation**, ANR-functionality for increased comfort, and **headset integrated UI**, making it purpose-built for reliable communication in high-noise environments.

HS250 is controlled by the CPX BST250 base station which supports up to **50 simultaneously connected headsets**, enabling seamless communication across large teams and dynamic operational settings. This scalability provides unmatched flexibility—whether equipping multiple crew roles, expanding coverage for special missions, or adapting to varying aircraft configurations.



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: 120 x 220 x 95 mm
- Weight < 600 g
- Adjustable fit
- Customer replaceable parts

POWER

- 12 hours operating time
- Integrated batteries
- 6 hours charging time
- 600 charging cycles

CPX PRODUCT COMPATIBILITY

- Base Station BST250
- Coexistence with headset HS200
- Charging Module CM220

TARGETED REGIONS

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

INTERFACES

- USB-C for charging and administration
- Bluetooth 5.x pairing with mobile phones for voice calls (Android/iOS)

INTERCOM

- Digital MEMS microphone
- AGC on microphone
- RX/TX MIMO
- Up to three full-duplex isolated communication groups
- Up to 50 simultaneously connected headsets
- Dynamic VOX
- Two PTT buttons

HEARING PROTECTION

- Passive, SNR=33 dB
- Active Noise Reduction (ANR)
- Compatible with NFMI-earplugs

UI – General

- LED indicating connection, charging, and power status
- Voice messages

UI – Left Cup

- “o” = Power on button with LED
- “+” = Volume up
- “-” = Volume down

UI – Right Cup (Intercom)

- “1” = PTT1
- “2” = PTT2
- “SEL” = Select profile

GENERAL

- IP67 rating
- DO-160G
- Operating temperature: -20 to +45 °C

HS250 – Member of
the CPX Product Family

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