

BST50 PNG Base Station



The BST50 PNG base station is the heart of the system and shall be installed in the aircraft, and connected to the aircraft wired ICS. The base station supports multiple audio connections, both through analogue interfaces and digital audio interfaces.

In addition to the ICS, the BST50 can be connected to aircraft installed radios via the aircraft audio control interface or via dedicated audio interfaces. It is capable of delivering a PTT signal to these radios. Thereby the wireless user is able to access any aircraft installed radio such as tactical or TETRA radios and can use the aircraft as a relay through their mobile transceiver.

The PNG base station supports group definitions (optional). Several remote users are supported and groups of users can be defined and linked to respective

loops on the aircraft ICS. As on the aircraft ICS, loops may be selectively addressed by the crew during the mission. The powerful MP50 DSP is able to mix several loops, so that a crew member is able to listen into several groups while selectively choosing to talk into single ICS loops. Several mission parameters can be stored to accommodate a multi mission aircraft.

The base station is a compact unit measuring 190mm x 150mm x 53mm. The PNG base station is controlled by a dedicated AXNES control panel or by implementing a control driver in the aircraft's audio management system. The base station supports two antennas, one for in-cabin and one for an external antenna installation. The base station is supplied by aircraft power (10 to 33VDC). Two power inputs are available, one for main power supply and one for emergency or redundancy.

Main Features:

- Multiple audio connection points (to aircraft ICS and other radios)
- Analogue and digital audio interfaces(optional)
- Capable of delivering PTT signal to radios installed in the aircraft
- External configuration memory module
- Dual antenna
- Control panel interface (with power supply for Control Panel)
- Various serial Interfaces (RS232)

Main Technical Specs:

- Inherent secure com with option to add AES 256 or embedded hardware encryption
- Full duplex
- 390-470MHz UHF (customer specified)
- Channel separation 25KHz
- Secure communication
- Optional encrypted configuration supporting AES256 available

Certifications:

- Qualified according to DO-160G
- Qualified according to DO-178C
- Delivered with EASA Form 1

Part Numbers and Variants:

Base station

AXS-BS-D0100-N	BST50 Base Station, secure com
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Note: Actual part number may vary depending actual frequency band. Availability of options per request to Axnes Aviation.