

BST50 PNG Base Station



The 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 base station 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 address tactical radios and can use the aircraft as a relay through his mobile transceiver.

The PNG base station supports group definitions. Several remote users are supported and groups of users can be defined and linked to respective loops on the aircraft ICS if needed. As on the aircraft ICS loops may be selectively addressed by the crew during the mission. The powerful 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 IC loops.

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 on the aircrafts audio management device.

The base station supports up to two antennas, one for in-cabin installation and one for an external antenna. The base station is supplied by aircraft power (10 to 36VDC). Two power inputs are available, one for main power supply and one for emergency or backup power supply.

Main Features:

- Multiple audio connection points (to aircraft ICS and other radios)
- Analogue and digital audio interfaces
- Capable of delivering PTT signal to radios installed in the aircraft
- External configuration memory module
- Dual antenna
- Control panel interface (with power supply for CP)
- Various serial Interfaces (ARINC429, RS232, Ethernet, CAN)

Main Technical Specs:

- Full duplex
- 390-470MHz (custom specified)
- Channel separation 25KHz
- Secure communication
- Optional encrypted configuration supporting AES128 available
- Qualified according to DO-160G
- Qualified according to DO-178C
- Delivered with EASA Form 1

Part Numbers and Variants:

	AXS-BS-D0100[-options] PNG BST50 Base station, secure communication
Base station	Options: C – Civil encryption M – Military encryption

Note: Actual part number may vary depending actual frequency band. Availability of options per request to Axnes Aviation.