

sunair



ASB-500

synthesized airborne
hf ssb transceiver

ALL SOLID-STATE
SYNTHESIZED TRANSCEIVER
2 TO 18 MHz
FOR BUSINESS AND GENERAL AVIATION
FIXED WING AIRCRAFT OR HELICOPTERS



high performance

32,000 SYNTHESIZED channels,
2 to 18 MHz (500 Hz increments),
100 Watts PEP power output,
USB, AM, and LSB operation

reliability

All Solid-State, designed and built to operate
over wide variations in temperature, altitude,
humidity, shock and vibration.

dependability

Rugged modular construction.
Solid-State power amplifier is conservatively
rated and fully protected from antenna
mismatch.

versatility

Small size and weight allow installation in all
fixed and rotary wing 28 volt aircraft.
Digital frequency synthesizer and automatic
antenna tuner permit operation on 32,000
frequencies for around-the-world coverage.

The ASB-500 has been specifically designed for installation in fixed and rotary wing aircraft where a large number of operational frequencies are required and size, weight and cost are limiting factors. The complete transceiver, consisting of receiver/transmitter/power amplifier, is contained in a 1/2 ATB case measuring only 4-7/8" wide by 7-5/8" high by 15-1/2" long, making it suitable for remote mounting in practically any location. The control head, designed to ATB standard mounting and outline dimensions, mounts in the aircraft panel and contains all controls and indicators for operation of the transceiver. Included are a six digit LED frequency display, lighted mode switch buttons, and indicators that monitor antenna coupler tuning and status.

The ASB-500 utilizes a modern digital synthesizer contained on one printed circuit board. All sub-assemblies are plug-in including the power amplifier and each can be easily and rapidly removed if required. High reliability, good performance, and serviceability result from this modular, all solid-state plug-in design and utilization of current technology in integrated circuits. Field replacement of modules is rapid, and troubleshooting and repair are greatly simplified.

The ASB-500 is mechanically and electrically designed to meet the stringent environmental and operational requirements of the U.S. Federal Communications Commission and the Technical Standard Orders (TSO) of the Federal Aviation Agency. It will operate over wide variations of temperature (-40 to +50°C) and humidity (0 to 95%) as well as the shock and vibration environment encountered in rotary wing aircraft.

The base price of the ASB-500 includes the Control Head, Transceiver unit that includes Receiver/Exciter/Power Amplifier with USB, AM and LSB modes, Installation Manual and Transceiver Kit that includes Shockmount for the Transceiver and all mating connections.

It is recommended that the ASB-500 be used with the ACU-150 Automatic Antenna Coupler. The ACU-150 has been specifically designed to operate as a companion unit with the ASB-500 and will automatically tune a wide variety of aircraft antennas over the entire frequency range of 2 to 18 MHz.



sunair electronics, inc.