

sunair



ASB-850

synthesized airborne hf ssb
transceiver system



high performance

280,000 SYNTHESIZED channels.
2 to 30 MHz (100 Hz increments).
100 watt solid-state power output.
Instant frequency stability, without warm-up.
USB, LSB and AM operation.
Rapid automatic antenna tuning, 3 seconds typical,
into wide range of antenna types without any
external tuning elements.

reliability

Field proven, all solid-state subassemblies assure
high operational reliability.
Power amplifier conservatively rated and fully
protected from antenna faults.
Designed to rigid FAA TSO requirements.

dependability

Designed for extreme operating environments en-
countered in military and airline applications.
Rugged modular construction permits rapid main-
tenance and servicing.

versatility

280,000 digitally selected frequencies and auto-
matic antenna tuning permits unlimited frequency
selection in HF band for unrestricted world-wide
operation.

**ALL SOLID-STATE
SYNTHESIZED TRANSCEIVER AND COUPLER
2 TO 30 MHz
FOR FIXED WING AIRCRAFT OR HELICOPTERS
MILITARY • AIRLINES • BUSINESS AIRCRAFT**

The ASB-850 transceiver system was specifically designed to fulfill the requirements of airborne tactical military missions that utilize either fixed or rotary wing aircraft as well as airline and business aircraft applications. Its light weight, small size and packaging concept allow it to be installed in a space of less than one cubic foot. The ASB-850 will operate over wide variations of temperature and humidity and is designed to meet the TSO requirements of C-31c and C-32c. Its rugged modular design, utilizing all solid state plug-in PC cards, not only facilitates maintenance and repair but enables the equipment to withstand high degrees of shock and vibration.

The ASB-850 is a new generation of airborne HF/SSB equipment. The system is comprised of a compact Control Head, a remotely operated Receiver/Exciter and Power Amplifier/Antenna Coupler. The Control Head occupies only 2-5/8 inches of vertical panel space and contains a modern high intensity LED frequency display and all controls to operate the two remote mounted units which are housed in two 1/2 ATR cases.

The ASB-850's modern digital synthesizer allows instant on-frequency selection of 280,000 channels from 2.0 to 29.9999 MHz in 100 Hz increments. The automatic antenna coupler will tune the aircraft antenna to the selected frequency in approximately 3 seconds. All antenna coupler tuning components are contained within the 1/2 ATR case and no external components are required to tune typical aircraft antennas.

The conservatively rated all solid state 100 watt power amplifier is protected from any combination of over-voltage or over-current conditions that could result from abnormalities in the aircraft power system or antenna condition.

The basic price of the ASB-850 system includes the Receiver/Exciter unit, Power Amplifier/Coupler unit, and Control Head.



sunair electronics, inc.