

Secure Remote Adapter

Model SRA-851



The SRA-851 extends the connection between a KY-100 ANDVT AIRTERM (or KY-99A MINTERM) and a radio transceiver (e.g., RT-1851, AN/PRC-117, etc.) over a communications link composed of a satellite hop, a copper cable or a fiber optic cable. The SRA-851 supports all three modes of KY-100 operation - plain text (PT) analog, wideband (WB) and narrowband (NB). In a typical application, the SRA-851 at each end of the link converts the PT, WB or NB information received from its supported equipment (i.e., the KY-100 or the radio) into a common format and transmits it to the far end where it is converted back to its original format (including the extraction of the push-to-talk (PTT) signal). The SRA-851 is automatically configured to support either the KY-100 or the radio end of a link. The SRA-851 also automatically determines its operational mode, i.e., PT, WB, or NB, based on activity detection without operator intervention. This is an essential capability in unmanned facilities or shelters.



Physical Characteristics

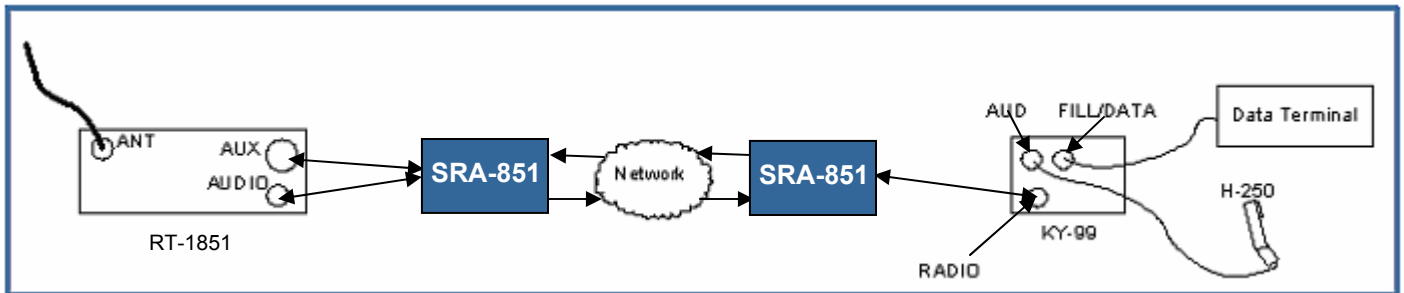
The SRA-851's enclosure occupies 1/3 U rack-mount space. A mounting tray is supplied which allows easy removal and replacement of a unit in a standard equipment rack. The SRA-851 operates from an external +5VDC power supply. In cases where several SRA-851 are used in a single facility, a larger, 1U tray is available as an option which accommodates two SRA-851s and a common AC power supply or three SRA-851s.

Interfaces

- DB-25(M) connector for cable to KY-100 or radio transceiver.
- DB-25(F) connector for cable to communications equipment (e.g., to FCC-100). Interface is in accordance with RS-422/ RS-530 standards.
- Hirose RM12BRD-2PH female jack for DC power. A ground stud (GND) is also provided for chassis grounding.

Technical Specifications

Operating Temperature:	0 to 40 ⁰ C
Relative Humidity:	0 to 90% non-condensing
Power:	+5 VDC
Dimensions:	1.70" x 5.65" x 12.50" (HxWxL)
Weight:	2.2 lb (incl. external power supply)



SRA-851 Concept of Operation

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