

RT-1832/APX

Airborne and shipboard IFF transponder

FEATURES

BAE Systems' RT-1832/APX avionics transponder - produced for the F/A-18 MIDS compatibility IFF transponder upgrade program.

Competitively selected over advanced versions of the AN/APX-100, BAE Systems' new IFF transponder incorporates all of the advanced features required in today's global military and civil air traffic control environment. The transponder's open-system architecture design and high-density FPGA technology ensure ongoing versatility and future utility through software upgrade only, without the risk and cost associated with hardware modifications.

The RT-1832/APX transponder is configured for replacement of AN/APX-100, AN/APX-101, AN/APX-108, AN/APX-72, AN/APX-64 and AN/UPX-28 transponder installations.

Compliance with DOD-AIMS 97-1000, DOD-AIMS 97-900, and STANAG 4193

MIDS and JTIDS compatibility

Open system architecture

Mode S level 3 (growth to level 4) and TCAS II compatibility

Easy growth to mode 5 level II

Embedded cryptographic computer or external KIT-1C

Software upgrades via front panel input and output



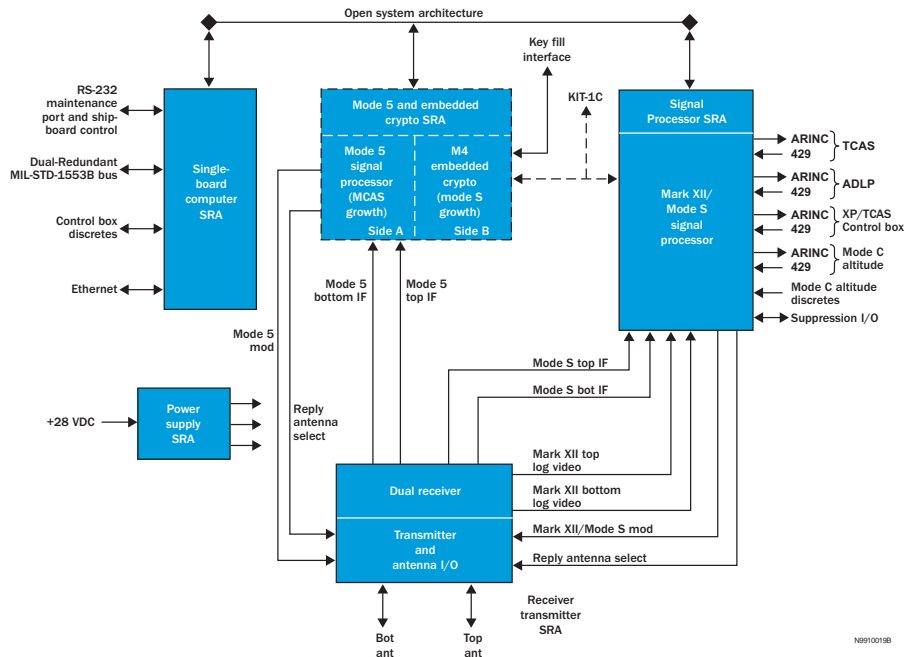
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SPECIFICATIONS

General description

- Primary input voltage	+18 to +30 Vdc	- Diversity operation	Full diversity capability; channel selected over dynamic range
- Input power	30 watts, nominal	- Dynamic range	60 dB minimum
- Transmitter frequency	1090 ±0.5 MHz	- Reliability	4,000-hour MTBF per MIL-STD-781
- Receiver frequency	1030 ±0.5 MHz	- Size	5.375 in. x 5.375 in. x 8.375 in. (13.65 cm x 13.65 cm x 21.27 cm)
- Peak power output	500 ±2 watts and under all conditions	- Weight	10.0 pounds (4.5 kilograms)
- Transmit duty cycle	1% maximum	- Electromagnetic compatibility	U.S. DoD MIL-STD-461
- Receiver bandwidth	MHz, 6 dB down	- Temperature range	-54°C to 95°C Class II
- Sensitivity (MTL)	-77 dBm (each channel)		



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