

AN/URT-23F

Naval Tactical Data System Link 11/TADIL-A: Digital Data Transmitting Set with Limited Range Intercept (LRI) and Remote Control

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The AN/URT-23F is an embedded multiprocessor controlled High Frequency transmitting set, that operates in the 2 to 30 MHz frequency range. The AN/URT-23F is capable of multi-mode transmission on any of 2,800,000 channels spaced in 10 Hz increments in the 2.0 to 30 MHz frequency range. The AN/URT-23F has 5 selectable power ranges from 1 kW to 0.1 W. Power levels within each range are adjustable in nominal 1 dB steps. The AN/URT23F operates in single side band (SSB) AM and carrier wave transmission modes. SSB operating modes are Upper, Lower and Independent side bands. NORMAL operating modes are continuous wave (CW), compatible amplitude modulation (AM), radio teletype (RTTY), upper side band (USB), independent side band (ISB) and a combination independent side band and RTTY or ISBRATT mode. In DATA operation Tactical Digital Data Link (TADIL-A, LINK 11) narrow band data transmission is supported by using quadruplex audio tone modulation provided by an NTDS (Naval Tactical Digital System) computer interface modem. A remote control computer set with an RS-232C, MIL-STD-188C, RS-422 or RS-485 digital interface is to be supported which allows custom systems integration to computers or digital networks. The AN/URT-23F gives full channelized control with up to 300 operator defined presettable channels that reside in nonvolatile memory. The channel memory stores frequency, mode of operation and power output range and level. The nonvolatile memory also insures correct recovery after power disruption.

FEATURES:

- Frequency range: 2.00000 to 29.99999 Mhz
- True automatic digital tuning in selectable 10 Hz steps
- Full 300 channel operation, including power level control
- Variable 1 kW to 0.01 W PEP and average RF power output
- Advanced RS-485 standard interface interoperates with RS-422, RS-232 or supports 31 transmitters as in MIL-STD-1553B
- RF power controlled by exciter key pad input
- Exciter (T-827L/URT) operates with standard power amplifiers, with field upgrade giving full AN/URT-23F capability to present AN/URT-23 transmitters
- Supports all ISB and SSB radio communication modes
- Full Link 11/TADIL-A capability with digital TGC and LPI
- Advanced high contrast alphanumeric multi-function LED display
- Built-in-test allows module level troubleshooting for exciter and monitoring of power amplifier functions
- Multi-key sealed keypad allows for full operation with gloves, provides splash/salt resistance, and EMI shielding
- Operates with AN/URA-38 autocoilors for whip antennas
- Operates with AN/SRA-56, 57 & 58 series multicouplers for fan or whip antennas