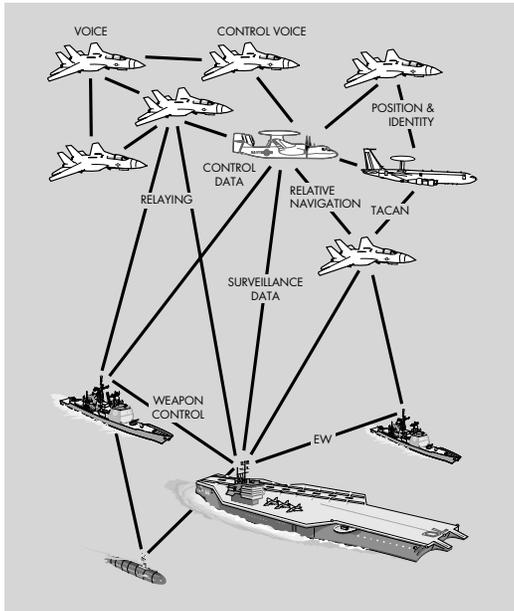


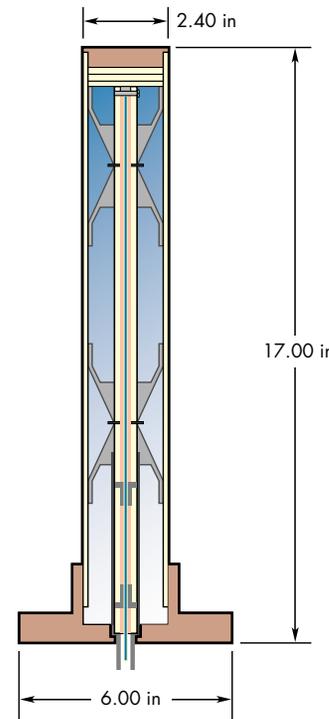
The Joint Tactical Information Distribution System (JTIDS), Link-16, AS-4400/URC antenna is a two-element collinear array developed by SSC San Diego RF Devices and Antennas Branch, Code 2738, San Diego, CA. The antenna is used as a shipboard Link-16 receive-only antenna or a shipboard Link-16 transmit/receive antenna, where Link-16 systems requirements must be met without supporting the Tactical Air Navigation (TACAN) antenna. It can also be used as a transmit/receive antenna for the UPX-28 IFF transponder unit.



Link-16 Antenna Operating Environment

Link-16 provides a secure, jam-resistant digital communications link for data and voice, supporting command and control, navigation, relative positioning, and identification. Link-16 is a time-division multiple-access (TDMA) system that operates over line-of-sight ranges up to 300 nautical miles, with automatic relay extension beyond. Within the Link-16 mission profile, the Link-16 shipboard antenna enables tactical communications between properly equipped ships (designated CVs, CVNs, LHAs, LHDs, CGs, and DDGs) and aircraft (E-2C and F-14D) assigned to the battle group.

The antenna is a flange- or pipe-mounted antenna installed on various shipboard mast locations. As part of the Link-16 URC-107(V) transceiver system, it provides receive-only antenna reception and emergency transmit. The antenna enables reception of Link-16 RF signals with omnidirectional azimuth coverage and tapered hemispherical elevation coverage. It can be mounted on a flange mount or, using a standard adapter, mounted at the end of a vertical 1½-inch-diameter pipe. The antenna is 17.75 inches long (including connector), and consists of a collinear array of two dipoles protected by a fiberglass-tubing radome.



Cutaway View of the Link-16 Antenna

Without electrical or mechanical tuning, the antenna operates as an omnidirectional antenna over the entire Link-16 frequency band (960 MHz to 1215 MHz). It also meets the military requirements (MIL-STD-2036) for shipboard environmental conditions.



Link-16 Antenna with Reflector and IFF Filter

### OPTIONS AVAILABLE

- Pipe mount (1½ inch)
- Flange mount (standard 2-inch pipe flange)
- Reflector for 180-degree azimuth coverage and increased gain
- Local low-noise amplifier
- Attached 1030-MHz/1090-MHz double-bandpass filter (for IFF applications featuring interference protection)
- Duplexer for Tx and amplified Rx