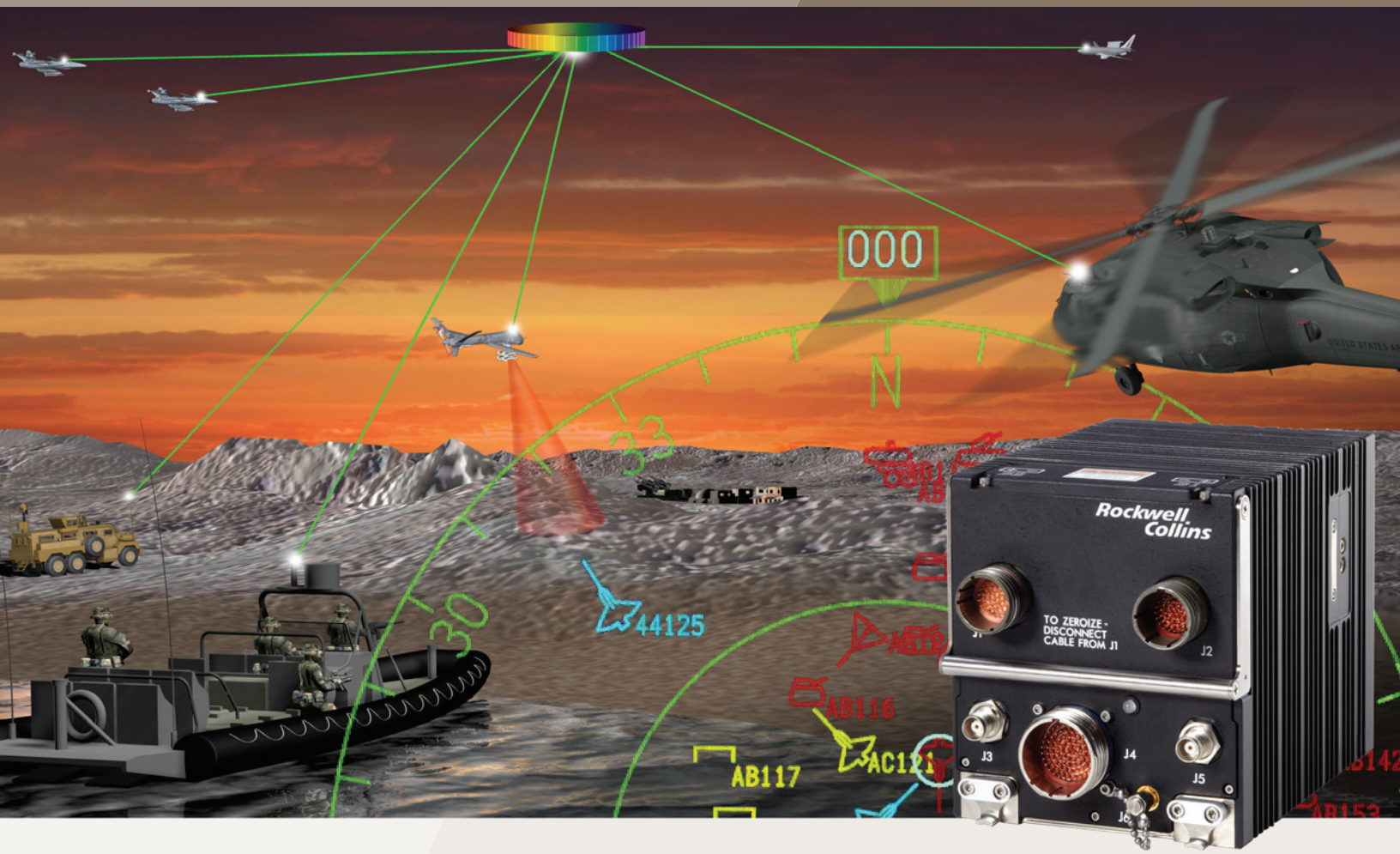
TacNet™ Tactical Radio



The smallest, most affordable and greatest range for its size Link 16 terminal available today.

The Rockwell Collins TacNet™ Tactical Radio (TTR) delivers proven Link 16 capability to meet both U.S. armed forces and coalition warfighter requirements for a small, lightweight, low-cost Link 16 situational awareness radio to combat 21st century threats. TTR is the smallest size, standalone Link 16 terminal available today.

Built on a solid foundation of combat proven data link systems, the Rockwell Collins TacNet Tactical Radio provides critical connectivity for platforms that traditionally lacked Link 16 access, such as UAS, Tactical Air Control Party (TACP), mobile and transportable ground stations, rotary wing, small maritime assets and transport aircraft.

In developing the TacNet Tactical Radio, Rockwell Collins leveraged its expertise in modular architectures and thermal management to reduce overall systems integration risks. The result – a terminal developed, tested and qualified to MIL-STD- 6016D, STANAG 5516 and DoD 4650.1-R1 requirements ensuring interoperability across all platforms currently operating on the Link 16 network.

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MAIN TERMINAL CHARACTERISTICS

Length	6.60 in (16.76 cm)
Width	4.96 in (12.60 cm)
Height	5.56 in (14.12 cm)
Weight	9.9 lbs (4.5 kg)
Volume	<182 in^3 (2,982.4 cm^3)
Input power	28 VDC
Cooling	Free convection cooled, no cold plates or fans required
Environmental compliance	MIL-STD-810F, MIL-STD-461E
Operating temperature	-40°C to +71°C
Storage temperature	-55°C to +95°C
Altitude	-1,800 to +70,000 ft (-549 to +21,336 m)
Range	+200 nm (+370.4 km)

PERFORMANCE CHARACTERISTICS

- Three selectable transmit power modes: 90 W, 50 W and 1 W
- Time Slot Duty Factor (TSDF) modes: up to 100% TSDF
- Dual or single antenna TX and RX
- Jam resistant and crypto secure
- 127 possible nets
- Frequency remapping
- Extended sync endurance

GROWTH CAPABILITY

- Link 16 crypto modernization
- Enhanced Throughput (ET)
- Concurrent multi-netting
- Multi-channel capability
- High power capability

FUNCTIONAL CAPABILITIES

- Interoperable with MIDS and JTIDS
- NATO interoperability
- Full Link 16 message capability to include Precise Participant Location and Identification (PPLI) messages (MIL-STD-6016D)
- Embedded, highly accurate geodetic navigation
- Adaptive host interface processing
- Applicable to all military services
- Relay
- CVSD and LPC-10 voice
- 1553 and Ethernet I/O
- SCA architecture
- Co-site mitigation interfaces

MIDS LVT

BENEFITS TO END USER

- Situational awareness now available for all tactical edge users
- Improved mission effectiveness
- See your tactical objective
- Reduced pilot workload
- Real time shared sensor information
- Improved mission tactics
- Reduced duplicate assignments or targets
- Joint Link 16 interoperability with NATO and coalition forces
- Significant cost savings over MIDS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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