



Photo courtesy of U.S. Army

Handheld and Manpack Antennas

We offer a large range of handhelds (10 W) and manpack (20 W) antennas for military radio communication systems. For use in severe and harsh environments, our robust and extremely flexible antennas give you excellent electrical performance to optimize your radio range.

- Over-molded whip broadband antennas
- Fully sealed flexible VHF blade antennas
- "Night stick" manpack antennas with ball- or spring-joint articulation
- Monopole gooseneck antennas



Vehicular Antennas

Our new family of 50 W vehicular antennas features a much smaller height than most vehicular antennas available in the market, with equivalent or better electrical performances.

- Less than 1.5 m high (5 ft), compared to existing 3 m (10 ft) antennas
- Frequency range: broadband 30 to 512 MHz and HF 700 to 2500 MHz
- Lightweight



Our family of wideband antennas is optimized to satisfy size, weight, and power plus cost (SWAP-C) requirements. Combined with our robust spring-mount base, they are compliant with MIL-STD-810 and pass the "oak" beam test. High frequency antennas are smaller in size and benefit from the same technology which enables us to comply with MIL-STD-810, and pass the oak beam test.

All our vehicular antennas are designed with our specific NATO base, which complies with UK and US standards. The bases guarantee performance by keeping antennas still on damaged roads or bumpy tracks.

30% recycled fiber



Performing at Our Best

We are committed to meeting and exceeding industry standards and your requirements in interconnect design, quality, reliability, and performance. ISO 9001, ISO 14001, AS9100, and TS 16949 certifications highlight our dedication to continuous improvement and innovation in leading-edge technology.

Choosing the Best Company

When you choose Radiall, you're choosing a partner committed to investing in its people, future technologies, and the environment. We comply with RoHS and REACH initiatives to remove hazardous substances from products. And, to serve you better and meet your immediate needs, we are everywhere you need us. Radiall sales offices and subsidiaries throughout the world are supported by engineering and R&D in the United States and Europe. Manufacturing facilities are strategically located in the U.S., Mexico, and Europe.

Simply Your Best Connection

When only the best will do and you need value from a company you can trust, Radiall is simply your best connection.



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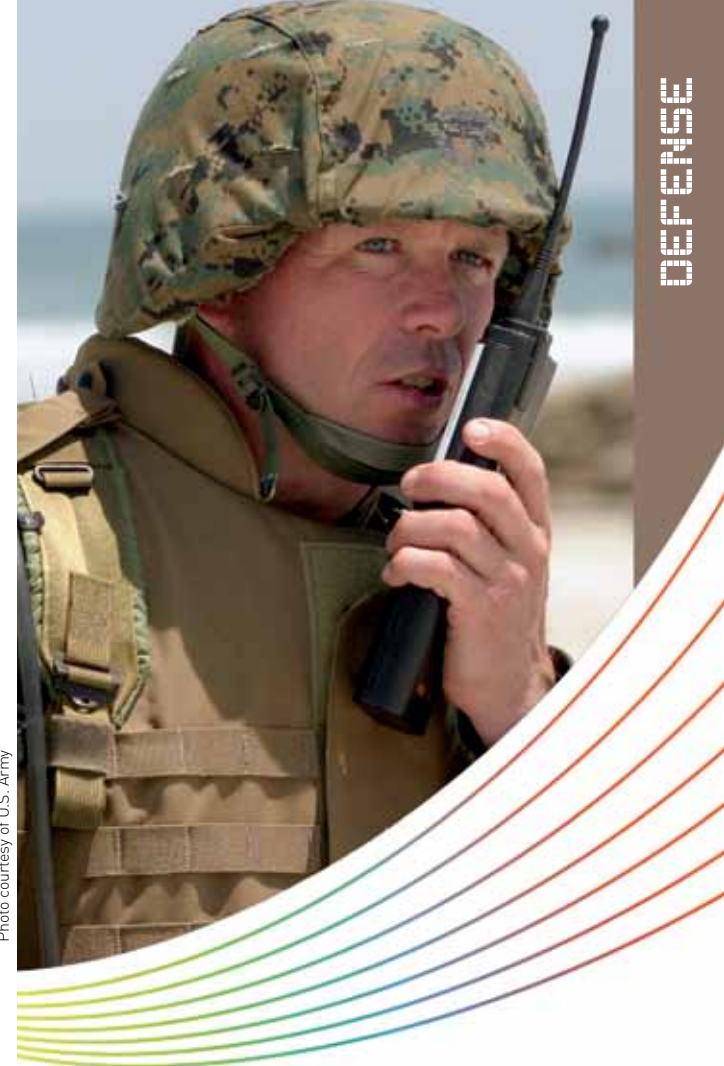
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DEFENSE







Antenna Solutions for Tactical Communications and EW Systems



Small, Robust, and Lightweight Antennas for SDR Communications Systems








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Antennas for Handheld and Manpack Applications		30-108 MHz	30-512 MHz	200-450 MHz	1250-1850 MHz	2400-2500 MHz
Short Whip Antenna						
	10 W		X			X
Long Whip Antenna						
	10 W	X	X	X		
	20 W	X	X			
Gooseneck Whip Antenna						
	10 W	X	X			
	20 W	X	X			
Gooseneck Blade Antenna						
	10 W	X	X			
	20 W	X	X			
Short Blade Antenna						
	10 W					
	20 W					
Gooseneck or Spring Radome-Onmi Antenna						
	10 W				X	X
	20 W		X			
	50 W		X			

Radiall is the premier innovator of antenna products for a wide variety of military and defense applications including: handheld radio, manpack radio, ground vehicle, UAV, unattended ground sensors, GPS, and other antennas in support of the digital battlefield.

With the best compromise between electrical and mechanical technologies, our antennas feature optimal performance and extended operational life.

We will work with your engineers to quickly adapt an existing design to your specific antenna requirements.

Antennas for Vehicles				Length	Width
Frequency Range	30-512 MHz	X		57.5" (1.46 m)	17.2 lb (7.8 kg)
	225-400 MHz	X		31.5" (0.8 m)	9.4 lb (4.25 kg)
	700-2500 MHz		X	31.5" (0.8 m)	8.8 lb (4 kg)
	2400-2500 MHz		X	31.5" (0.8 m)	8.8 lb (4 kg)
Antenna Base					
			X		
		X			

X Existing antenna

Possible antenna

Operating Temperature:

-55 to +71°C

Storage & Transport Temperature:

-55 to +85°C

Fluid Contamination:

Mil-Std-810F Method 504

Ingress Protection:

IP67

Salt Spray:

48 h

Vibration:

Mil-Std-810F Method 514.5 Proc. I, Cat. 20 (Track & wheeled vehicles)

Shocks:

Mil-Std-810F Method 516.5 Proc I and V

Solar Radiation:

Mil-Std-810F Proc. II, Desert Conditions

Sand and Dust:

Mil-Std-810F Proc. I and II

Oak Beam Test:

25 Times @ 40 km/h

Flexibility (Spring Mount):

5,000 cycles ±90° 40,000 cycles ±30°