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UGV Antennas

May 2025 — Radiall, a global leader in interconnect solutions, proudly announces the launch of its groundbreaking UGV antennas, engineered specifically for Unmanned Ground Vehicles (UGVs). This debut product line represents a significant advancement in antenna technology, delivering unmatched durability and transmission stability for next-generation robotic and tactical applications.

With innovation at its core, Radiall's UGV antennas combine rugged construction, extended lifespan and superior signal performance, making them an ideal solution for mission-critical ground robotics. Designed for extreme operating environments, these antennas are capable of withstanding intense mechanical stress, vibration and shock—conditions that are common in autonomous military and industrial robotics. The new design ensures reliable data transmission in dynamic and mobile platforms, reducing downtime and extending mission readiness.

Key Features & Benefits

- **Damped Oscillation Design:** Proprietary vibration-damping base technology significantly reduces parasitic oscillations, up to 10 times less than conventional spring antennas, improving transmission quality and reducing mechanical wear.
- **Extended Lifespan:** An integrated spring and elastomer overmolding offer exceptional shock and vibration absorption, minimizing cable fatigue and enhancing longevity.
- **Crush and Corrosion Resistance:** The robust structure is protected against corrosion and mechanical damage, making it ideal for rough terrain and unpredictable missions.
- **90° Bend Capability:** Engineered for flexibility, even in rollover scenarios, without compromising signal integrity.

With UGV antennas, Radiall proves its commitment to enabling high-performance, reliable communication for defense, industrial and unmanned systems. For more information on Radiall's UGV antennas, please contact a Radiall sales representative or visit www.radiall.com.

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