

RuBee, IEEE 1902.1 Fact Sheet

RuBee[®] Provides Real-Time, Wireless Asset Visibility In Harsh Environments..... with No Change in Process.

- RuBee is an active, wireless, asset visibility technology that uses magnetic waves. RuBee does not use Radio Frequency fields (RF).
- RuBee works in harsh environments and is not affected by water. Steel can actually enhance the RuBee signal, and extend the range.
- RuBee is volumetric: it is not line-of-sight. Tags may be read on steel shelves with hundreds of stacked boxes, in a wallet anywhere in a room or by a door, on laptops or a handgun inside an aluminum case, even embedded in steel tools inside steel tool boxes.
- RuBee tags have a range of a few feet to over 50 feet depending on antenna design and tag design. RuBee tags may be as thin as a credit card, and as small as two stacked quarters.
- Smart RuBee tags have an optional programmable micro processor, with crystal clock for date and time, a thin coin size Lithium-Ion battery that can last up to ten years (field proven tag life of over 25 years), optional sensors, and optional SRAM memory up to 5Kbytes.
- RuBee tags are always cost-competitive with other wireless visibility technologies.
- RuBee has no human safety issues and has no risk to ICD or pacemaker wearers. RuBee power is many millions of times below OSHA limits for safe human RF exposure (RuBee = 40 nanowatts RF) and is 5 to 10 times below power used in retail antitheft systems (EAS) seen all over the world (RuBee = 600 mGauss magnetic, EAS = 3,000 to 5,000 mGauss).

- Because of its low power, RuBee has no known intrinsic safety, EMI or EMC issues with munitions, weapons or medical grade equipment that meet IEC 60601-1. RuBee is HERO ZERO and HERF ZERO.
- RuBee has been reviewed by the FDA and is classified as a Non-Significant-Risk (NSR) Class 1 device, for use in Operating Rooms.
- Specialized RuBee tags have passed many extreme tests: 20,000 round endurance testing with a tag embedded in a Sig Sauer P226 pistol; MIL-SPEC 810F – immersed in Jet A fuel and 13 other harsh solvents, placed under water for 24 hours at 66 feet, sprayed with salt water for 24 hours, at -50C and 80C for hours – and they still work. RuBee tags have passed EMI testing for mission critical phone equipment (NEBS).
- RuBee tags have passed stringent security tests, and are in use within some of the most secure sites in the USA where all other RF based wireless technologies (RFID, Wi-Fi, Bluetooth, ZigBee) are banned. RuBee is the only wireless technology that can dynamically manage range to prevent eavesdropping. RuBee cannot be used as a target or as a tempest vehicle by the enemy.
- The RuBee protocol is an international wireless standard, IEEE 1902.1 unanimously passed by corporate balloting at the Institute of Electrical and Electronics Engineers (IEEE). IEEE 1902.1, the RuBee protocol and RuBee applications are all available for licensing.
- RuBee Visibility Systems are used in Weapons, Livestock, Healthcare, Mobile Vans, and Mission Critical Tools, as well as many other asset visibility applications

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