Robotics

IGS-U

Satellite Navigation for Robots

Precise positioning of a robot can be critical.

Laser Range Finders give accurate positioning if an observed environment can be matched to a known "map". Unfortunately this is not always possible!

Odometry can determine position from known movement. But this is fraught with errors!

What's needed is an accurate spatial positioning system.

- +/- 10cm Accuracy
- Scalable system
- Easily installed & activated
- Complimentary with other localisation devices
- Output as a Cartesian coordinate
- Compact
- Update speed 110ms
- Power frugal 5 - 15VDC

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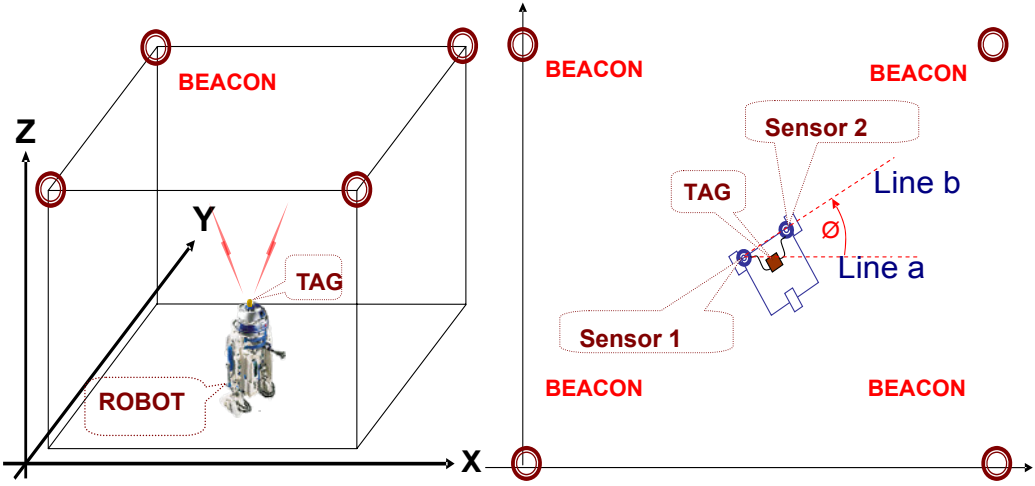
Specifications:

Basic Area Module	5m x 5m x 2.5m at 12V TAG power		
Accuracy	±10cm		
Update Time	110ms		
Interface	RS232 (19200 bps)		
Radio Frequency	2.4GHz ~ 2.4835GHz		
Ultrasound Frequency	25KHz		
Power	TAG	DC 5V ~ 15V	
	BEACON	DC 3.3V ±5%	
Size	TAG	Main Device	90mm (W) 58mm (H) 17mm (D)
		Peripheral Device	35mm (W) 35mm (H) 15mm (D)
	BEACON	Main Device	35mm (W) 68mm (H) 18mm (D)

Schematic



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