



AQUABLINKR™

APPLICATIONS

Maritime Awareness

Weather Forecasting

Environmental Health
Monitoring

Water Resource
Management

FEATURES

Iridium/Iridium-NEXT
Constellation Compatible

Water/Air Temperature Sensors

GPS

Low SWaP

Low Cost Hardware

(<\$500/unit at large volumes)

DESCRIPTION

AquaBlinkR™ is an Internet of Things (IoT) sensor that is specifically tailored for maritime applications utilizing low earth orbit communication datalinks with the Iridium Constellation. The **AquaBlinkR™** is a low power device capable of characterizing the water in the field by capturing data such as GPS, sampling depth, temperature, salinity, and pressure from on-board sensors. The device was designed with a power-saving HyperSleep™ mode to conserve battery power to maximize lifetime. Data sampling and transmission intervals are customizable. The default configuration for the **AquaBlinkR™** is to transmit sensor data twice a day with a total battery lifetime of 8.5 months resulting in over 6100 total messages. This device is currently at TRL 5.

SPECIFICATIONS

RADIO SPECS

FREQUENCY	SENSITIVITY	MAX EIRP
1616 – 1626.5 MHz	-116 dBm	29.8 dBm
MAX DATA RATE	MAX DOWNLOAD	MAX UPLOAD
2.4 kbps	270 bytes	340 bytes

SWaP

- Volume: 550 cm³
- Mass: <300g
- Batteries Required:
Three CR123A Lithium
 - Auto-Power On
 - Easily Replaceable
- Power Consumption:
 - Average: 0.16 mW
 - Peak: 2.75 W



DIAMETER: 10.16 CM HEIGHT: 11.43 CM



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