

SUBSONUS TAG TRANSPONDER

Subsonus Tag is a low cost acoustic positioning transponder that operates with the Subsonus USBL.




It features an integrated battery, wireless charging and a pressure tolerant display.

Ultra low-power consumption allows operation for up to 18 months on one charge.

Up to 65,000 Tag underwater transponders can be tracked by one surface Subsonus unit.



PERFORMANCE

-  0.25 m Positioning Accuracy
-  1000 m Range
-  2000 m Depth Rating

KEY FEATURES

- 18 Months Battery Life
- Very low size, Weight and Power
- No Maintenance
- Cost Effective
- Integrated Display



APPLICATIONS



SUBSEA ASSET
TRACKING



AUV & ROV
NAVIGATION

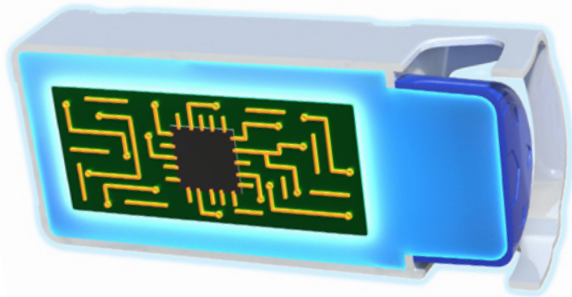


DIVER
TRACKING



MOORING
IDENTIFICATION

FEATURES



ULTRA LONG BATTERY LIFE

Subsonus Tag features a revolutionary acoustic processing architecture that allows it to achieve unparalleled battery life of up to 18 months in slow update applications.



MULTI-TRACK TECHNOLOGY

Up to 65,000 Subsonus Tags can be deployed in the same area and tracked using one surface Subsonus unit.

Each tag has a unique address and can be assigned a name for easy identification.



INTEGRATED DISPLAY

Subsonus Tag features a pressure tolerant display that allows divers to receive and respond to messages from the surface.

The electronic paper technology consumes no power between updates of the screen graphics.



HERMETICALLY SEALED

The revolutionary design of Subsonus Tag features total encapsulation of the electronics and batteries. This offers unparalleled reliability with no servicing required.



COMPLETELY WIRELESS

Subsonus Tag contains a Qi compatible wireless power receiver for convenient battery charging without using connectors.

Tags can be quickly configured and updated from a smartphone using bluetooth.



SPECIFICATIONS

POSITIONING (with Subsonus USBL)

Position Accuracy (5 m range)	0.25 m
Position Accuracy (100 m range)	1.5 m
Position Accuracy (1000 m range)	15.0 m

BATTERY

Battery Capacity	28 Wh
Battery Life (5 second ping rate)	48 hours
Battery Life (1 ping/hour)	30 days
Battery Life (listening)	18 months
Charging	Qi Wireless Charging v1.2
Battery recharge time	6 hours

ACOUSTICS

Frequency	30 kHz (broadband)
Range	1000 m
Beam pattern	Omnidirectional
Range Timing Accuracy	0.01 m
Maximum Update Rate	1.3 Hz
Transmit Power	Dynamic
Data Transfer	Yes
Remote Acoustic Configuration	Yes

SENSORS

Roll & Pitch Accuracy	1.0 °
Heading Accuracy	2.0 °
Heading Source	Magnetic
Water Temperature Accuracy	0.5 °C

DISPLAY

Display Type	Pressure Tolerant Electronic Paper Display (EPD)
Display Size	54 mm
Display Resolution	122 x 250 Pixels
Display Daylight Visibility	Direct Sunlight
Display Backlight	Yes (Configurable)

HARDWARE

Interface	Bluetooth Low Energy v4.1
Material	Polymer Composite
Depth Rating	2000 m
Operating Temperature	-5 °C to 50 °C
Storage Temperature	-20 °C to 60 °C
Shock Limit	40 g
Dimensions	52 x 52 x 125 mm
Weight in Air	550 g
Weight in Water	250 g



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