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 Subnus 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

SENSORS

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

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

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)

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

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