



The BuoyLink LITE delivers metre-level positioning for targeted marine surveys — the build quality of the BuoyLink 4DX, at a lower entry cost, with a fully scalable feature set.



Source Air Gun / Sparker



Master Module



Head Buoy / Tail Buoy

The BuoyLink LITE is built for site surveys, wind farm and offshore energy infrastructure surveys, CCUS monitoring, and UHR geophysical acquisition. The Source Module positions airguns, sparkers, boomers, and other acoustic sources across scientific, engineering, and commercial operations.

The BuoyLink LITE shares the same fully enclosed internal antenna architecture and mechanical construction as the BuoyLink 4DX, across the complete module family — Source, Streamer, Master and Tail Buoy. The BuoyLink 4DX handles large-scale seismic operations: multiple streamers, extended deployments, and complex source arrays. The BuoyLink LITE targets single-streamer 2D, high-resolution 3D, and specialist surveys where a full-scale system is unnecessary.

In its standard configuration, the BuoyLink LITE is a self-contained, single-constellation, single-frequency GNSS system with 1.5 m RMS accuracy — no external corrections, reference

stations, or shore-based infrastructure required. Geodetic coordinates are output directly. Virtual AIS is included as standard. Low power consumption, proven peripherals, and purpose-designed installation accessories keep vessel setup straightforward and mobilisation time short.

Higher positioning performance is available through software license or subscription: multi-constellation tracking, additional signal frequencies, and PPP corrections can be added incrementally up to BuoyLink 4DX specification. A 900 MHz radio option is available as an alternative RF frequency for specific operational requirements.

At approximately 40% below the cost of the BuoyLink 4DX, the BuoyLink LITE is a practical entry point into the BuoyLink range — same construction, same reliability, scaled to the survey.

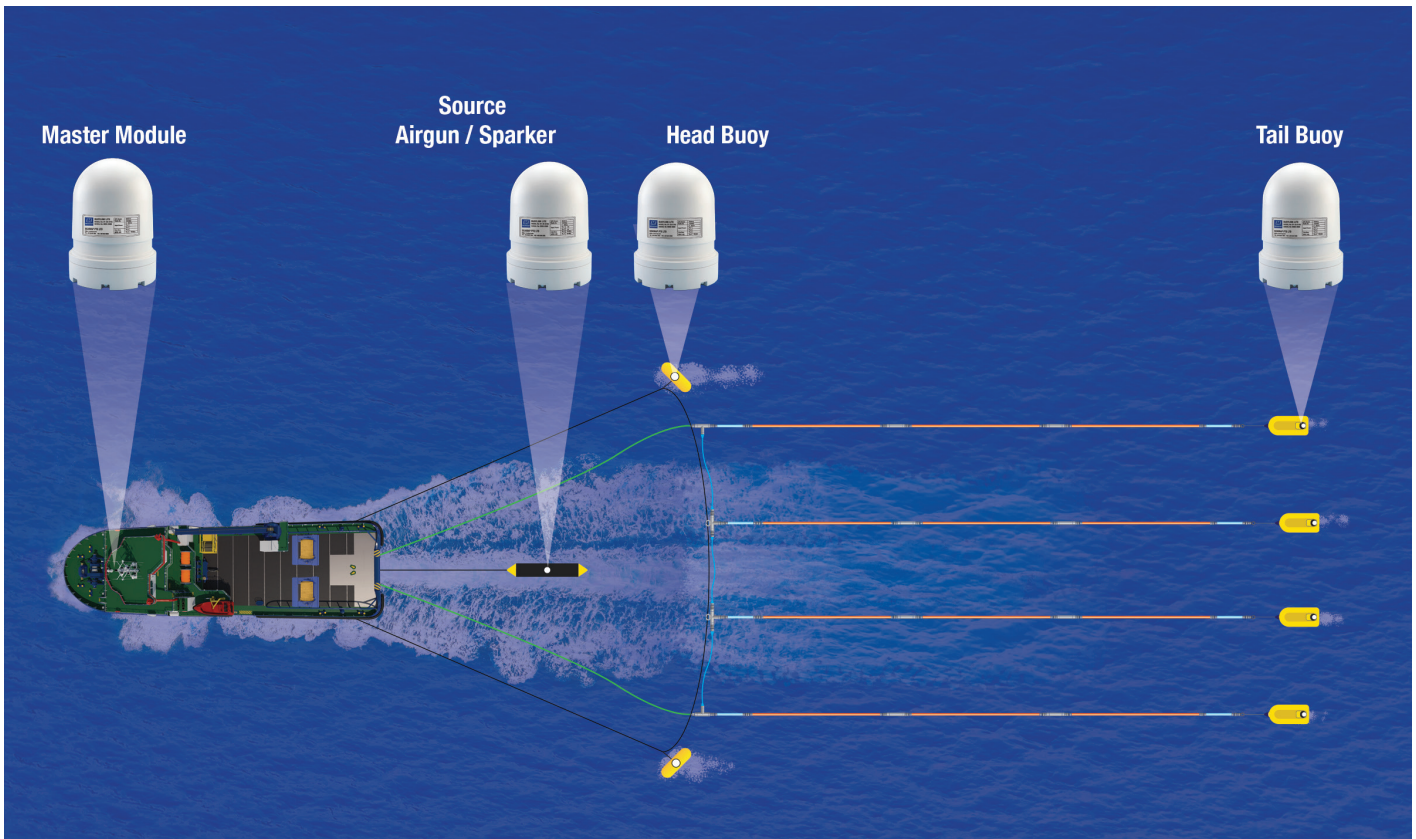
BuoyLink Lite - Same Peripherals as BuoyLink 4DX

- BuoyLink Software
- Data Acquisition PC
- MPU, Module Power Supply Unit
- MIU, Module Interface Unit
- PTU, Portable Test Unit

BuoyLink Lite - A Scalable Path to Full GNSS Performance

- Multiple Frequencies L1/L2
- Multiple Constellations
- Up to the full performances of the BuoyLink 4DX





Typical Array Layout showing the 3 different BuoyLink Modules and their use case.

Mechanical	BuoyLink LITE
Dimensions	Ø: 150mm, H: 200mm
Weight	2.6Kg
Rating	IP68 (10m submersion)
Shock	Mil-Std 810G, 50G 10ms
Mounting	Quick release shock clamp

Characteristics:	
Radio Range	3Km Option for longer range if required
Radio Frequency/ Transmission	2.4 GHz /TDMA, FHSS
Wire Data Transmission	RS485 Multidrop, up to 1 Mbps
Data Format	Latitude, Longitude, Height, QC

Electrical	BuoyLink LITE
Power	18-75Vdc
Consumption	4W
RF Tx Power	125mW Standard, 316 mW Max
Radio Antenna	Internal +1dBi omni (integrated with GNSS antenna)
GNSS Receiver	24 Ch (up to 120) supports GPS L1/L2/L2(C), GLONASS L1/L2/L5, Galileo E1/E5, SBAS subject to configuration and licenses
Update Rate	1Hz via Radio, up to 10 Hz Via Wire
Accelerometer	3-axis, 50g
Input Protection	Reverse polarity, over-current

Seamap (U.K.) Ltd.

Unit 34, The Maltings, Charlton Estate
Shepton Mallet, Somerset, BA4 5QE, U.K.

Tel: +44 [0] 1749 342223

Fax: +44 [0] 1749 347588

Email: seamapsales@mind-technology.com

MIND Technology

2002 Timberloch Place, Suite 400
The Woodlands, TX 77380

United States of America

Tel: +1 281-353-4475

Seamap Pte Ltd.

51 Changi North Crescent
Singapore 499626

Tel: +65 6545 1054

Fax: +65 6545 0585

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