



# ADVANCED NAVIGATION

POSITIONING EVERYWHERE

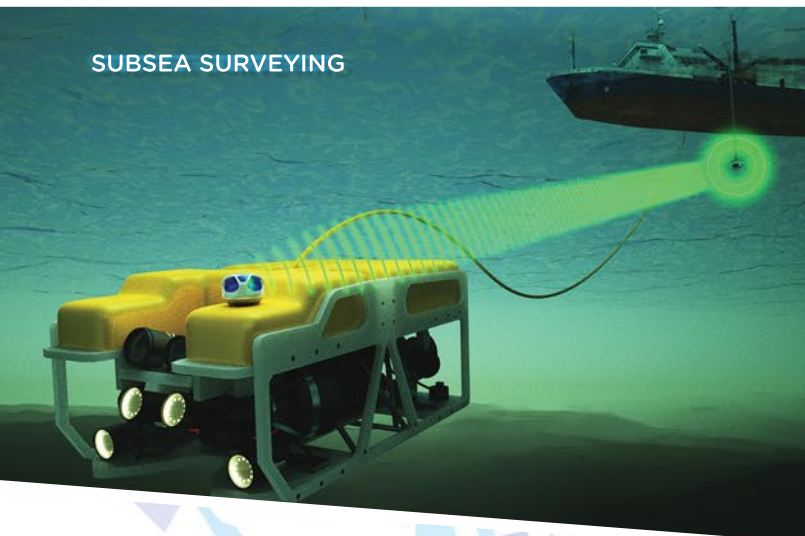
## LOGGING UNIT



MARINE SURVEYING



LAND SURVEYING



SUBSEA SURVEYING

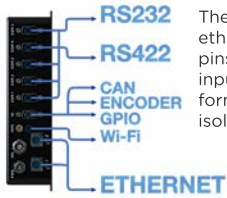


MARINE

*The ILU (Interface and Logging Unit) is a device server that interfaces to any of Advanced Navigation's systems and provides data logging, a web interface, a time synchronisation server and a wide variety of different industry standard data input/output options.*



## EXTENSIVE RANGE OF INTERFACES



The ILU features 6 RS232/RS422 serial ports, 1 CAN bus, 2 ethernet ports, WiFi and an array of multi-function GPIO pins. All of the interfaces can operate simultaneously with input and output of data in a large selection of different formats. Every single interface is individually optically isolated to prevent grounding issues with other equipment.

## TIME SYNCHRONISATION SERVER



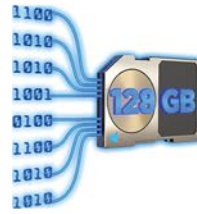
The ILU functions as an accurate GPS disciplined oscillator and has the capabilities of a full time synchronisation server. Its timing synchronisation outputs include 1PPS, 10 Mhz, hardware PTP as well as a number of other protocol based synchronisation outputs such as NTP and GPZDA.

## RUGGED INDUSTRIAL DESIGN



The ILU is housed in a rugged marine grade aluminium enclosure that is water proof and dirt proof to the IP68 standard. The system features surge, static, overvoltage, short circuit and reverse polarity protection on all of its interfaces. Additionally every interface is individually optically isolated to prevent grounding issues with other equipment.

## DATA LOGGING



The ILU supports data logging from the connected Advanced Navigation device and every other one of its interfaces simultaneously. Data can be automatically timestamped on arrival for easy synchronisation. The system contains 128GB of logging capacity which can allow the unit to log for months.

## RICH WEB INTERFACE



The ILU features a rich web interface that contains live mapping, real time data plotting and full configuration of devices. The ILU supports all of Advanced Navigation's products and the web interface dynamically reconfigures based upon what it is connected to.

## INDUSTRY STANDARD PROTOCOLS



The ILU has support for all of the major protocols including NMEA 0183, NMEA 2000, TSS, PASHR, Simrad as well as a wide variety of proprietary protocols. Support for any other popular protocols will be added on request.

## INTERFACES

<b>RS232/RS422 Ports</b>	6
<b>Baud Rates</b>	1200 to 1M baud
<b>Ethernet Ports</b>	2
<b>Ethernet Features</b>	Gigabit Hardware PTP
<b>CAN Ports</b>	1
<b>GPIO Pins</b>	8
<b>Encoder Inputs</b>	2 Differential Quadrature 2 Standard Quadrature 4 Frequency
<b>WiFi</b>	802.11b 802.11g 802.11n

## PROTOCOLS

<b>Supported Protocols</b>	NMEA 0183 NMEA 2000 TSS Simrad Novatel Trimble Hemisphere Topcon Ashtech IxSea Applanix Raw Binary (logging) Raw ASCII (logging)
<b>Supported Output Data Rates</b>	Up to 1000 Hz
<b>Logging Capacity</b>	128GB
<b>Simultaneous Logging</b>	16 sources
<b>Corrections</b>	NTRIP Client

## HARDWARE

<b>Operating Voltage</b>	9 to 36 V
<b>Input Protection</b>	±100 V
<b>Power Consumption (Typical)</b>	3.5 W
<b>Operating Temperature</b>	-40 °C to 85 °C
<b>Environmental Protection</b>	IP68, MIL-STD-810G
<b>Shock Limit</b>	40 g
<b>Dimensions</b>	204x100x52 mm
<b>Weight</b>	550 g