# EIVA

# ATTU
## Accurate Time Tagging Unit

- **Increased quality of survey results for multi-sensor, high precision surveys**
- **Reduced cost of cable installation onboard survey vessel**
- **Available in rack-mount and subsea version**

### Precise time tagging for improved survey results
Knowing the time of your sensor data as well as position and orientation of your sensors is essential for obtaining the highest precision and best possible data quality in marine surveys.

### Time accuracy better than 50µs
Leading operators and users within the offshore industry is asking for extremely precise time stamping of sensor data to meet the demands for increased survey.accuracy. The EIVA ATTU performs time stamping of sensor data to a precision better than 50µs – far better than what can be obtained through use of the internal clock of an ordinary PC.

### Multiplexing sensor feeds onto IP reduces cable installations
The ATTU contains a multiplexer which converts the serial sensor feeds into a single UDP/IP feed wrapped in the same time format. The benefit of this approach is that the ATTU simplifies onboard installations thus eliminating the need for complex cable installations.

- **Rack-mounted unit (2U) or subsea housing**
- **RS232/RS422/RS485 interfaces to sensors**
- **8, 16 or 24 port versions available**
- **Independent of sensor data format**
- **Network time server (NTP) for other units in the network**
- **Simple to use web interface for configuration**
- **Time synchronization via GPS or global time server**
- **Visible PPS indicator**
- **Recording to USB disk**

# About the ATTU

With the latest generation ATTU we have made it even simpler to add time tagging to any solution using NaviPac/NaviScan software for navigation and data acquisition.

The rack-mounted unit is plug-and-play installation into existing solutions – simply connect the sensors and configure the unit, and time tagging of sensor data is made with a much higher precision than before.

Should you want to use the ATTU within your own software applications, we also license out the ATTU protocols and formats on a case-by-case basis.

# SUBSEA ATTU
The ATTU is available in two different versions for subsea usage.

**ATTU subsea housing**
For installations like ROVs with lots of mounted sensors, we offer a version of the ATTU, where we have put the electronics and firmware inside a subsea housing with a number of serial connections and a build-in multiplexer converting data from serial to IP. The unit can be delivered in different depths certifications: 500m or 3000m. We offer communication modules of either 1 GB/s fiber-optical or 20-100MB/s via cable depending on cable length.

**OEM for your integration**
We also offer an OEM version where it is simply the same subsea electronics and firmware but without the housing and connectors, so that it can be integrated directly into your own subsea unit.

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