

PENLINK

Servo Drives For Subsea and Marine Applications

Explore the solutions that Penlink provides for Marine and Subsea applications. From thruster controllers to subsea robotic arm servo drives, we have delivered solutions for the most demanding solutions worldwide operating down to full ocean depth.

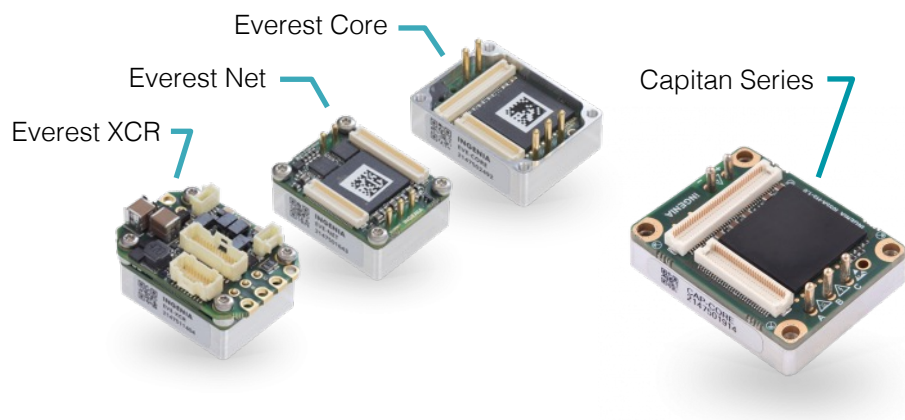
- Remotely Operated Vehicles
- Submersible Vehicles
- Thruster Integrated Drivers
- Subsea Actuators

Turn-key motor control solutions for marine and subsea applications

Our proven servo drives and custom servo drive solutions are used worldwide in a variety of industries such as Medical, Robotics, Logistics or Industrial Automation to name a few. Penlink's product and solutions portfolio offers a wide selection of DC and custom servo drives engineered with cutting edge transistor and control technology for brushless and brushed motors.

We deliver servo drives and motor controls for thrusters, robotic manipulators and pan and tilt systems that are used on several marine and subsea systems. From ROV thruster control to integrated controllers for thruster manufacturers, our engineering team has helped our clients find the right solutions for their applications.

- Remotely Operated Vehicles
- Submersible Vehicles
- Thruster Integrated Drivers
- Subsea Actuators



Subsea Technology

Our technology background covers the typical demands of marine and subsea applications, from sensor-less field oriented control with predictive models to using the latest pressure tolerant technology and design principles.

Customised PWM Frequency

Most applications in the subsea field incorporate numerous sensors that work in different ranges of frequencies. To minimize interferences, our servo drives are adjusted to match your needs from 8 to 80kHz.

DC Supplied

DC Supplied motor controllers provide the best integration for ROVs and manned submersibles that require the flexibility and efficiency to operate from batteries. Our DC supplied servo drives and motor controllers for subsea applications can be designed with supply voltages from 10 to 400 VDC.

Electronics Tropicalization

We protect the electronics from the surrounding atmospheric conditions such as humidity, heat, cold and other factors by making use of high-tech coatings for harsh environments.

Pressure Tolerant

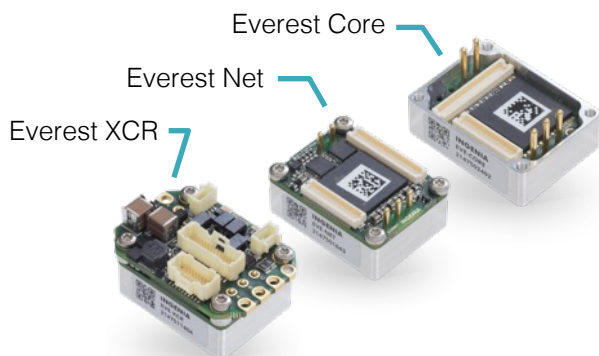
Our engineers select tested and reliable components to match your application requirements. We have developed, tested and delivered motor control solutions for repeated descents to hadal exploration zones.

High Power Efficiency

With our experience in power electronics you will benefit from an outstanding power efficiency of up to 99%, reducing heat generation, mechanical parts and increasing reliability.

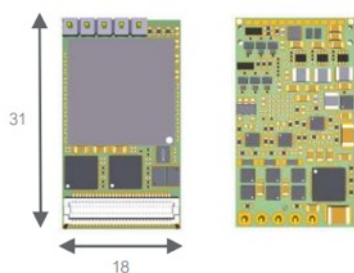
Sensor-less or Sensored Control

When reliability is a must, making use of optic, magnetic or mechanical encoders can be an issue due to interferences and deterioration. With our sensor-less control, we have you covered.



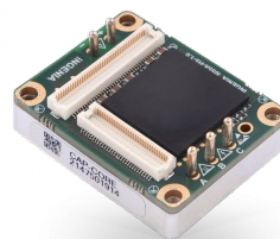
Everest

- 99% Efficiency
- Configurable Current Range
- Industry Leading Performance
- Plug-in Module
- High Speed SPI Bus
- Low Standby Power
- Low Latency
- Canopen and Ethercat



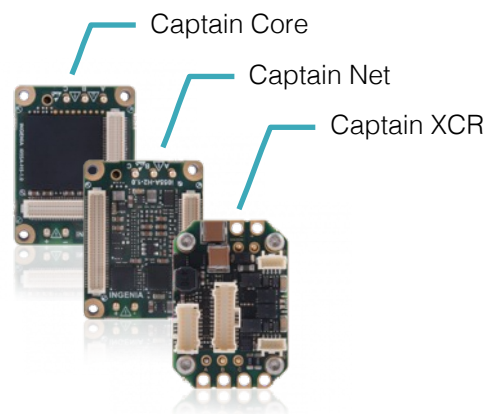
Denali

- 8-60 VDC @ 5A Continued
- 31x18x6 mm
- RS485 / SPI
- PWM up to 200 kHz
- Dual Feedback
- 1W std by power consumptions
- Voice coil support



SPI

- Cost, space and wiring reduction.
- Extremely high speed for data transmission.
- High performing multi-axis control and profiling with minimal latency.
- Full duplex communication support at all times.
- Minimized stand by power consumption.



Captain

- Ultra-compact Design
- Best-in-class Servo Performance
- Multiple Integration Options
- Safety First
- Superior Power Management
- Demanding Multi-axis Applications
- Pluggable or Connectors



Get in touch with us today to start
your next project!

WWW.PENLINK.SE



Engineering &
Product design



Inspection &
Quality management



Simulation &
Design
verification



Assembly &
Testing



Advanced
Manufacturing



Value-Added
Products & Services

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