



Commercial Shipping

Rackmount Dual Marine EMI Filter



▶ “The bespoke rack mountable EMI filter box, enabled Captec to provide a tailored solution to fit certification standards DNV 2.4 and IEC 60945 as of the customer’s requirements to undertake marine compliance.”



The customer solves their clients hardest connectivity challenges. Cargo ships transporting essential goods across the oceans. Governments relying on mission-critical satcoms. From connected cities, ships and planes to remote IoT operations, our satellite broadband services are transforming whole industries and creating better futures.

Requirements & Issues

- ▶ Commissioned to undertake marine compliance testing on partner’s Intel XEON enterprise server computers for products to be supplied on board commercial ships
- ▶ The product enables the computer to have a clean power source as all noise from the surrounding environment is filtered out
- ▶ The external filter boxes are rack mountable with a dual power supply to support a redundant power supply to the device and help prevent system damage
- ▶ No commercial off the shelf solution was available so a bespoke design was required

The Solution

- ▶ The filter boxes are designed to support the EMI compliance testing and certification of commercial grade IT equipment from workstations to enterprise-grade server products in marine applications
- ▶ Captec engineers developed and produced the filter boxes, limiting common and differential-mode EMI emissions from equipment, integrating EMI filters to provide clean power and incorporated dual power/ rackmount form factor
- ▶ Manufactured by using our metalwork and electromechanical capabilities, designed for high reliability and low maintenance



The Outcome

- ▶ External filter box, rack mountable with successful compliance for marine use certified to DNV 2.4 and IEC60945
- ▶ New Captec filter product brought to market extends Captec's marine product portfolio
- ▶ All work from design through test and production undertaken by Captec, with over 10,000 units supplied to date through worldwide distribution
- ▶ It enables customers to use commercially off the shelf equipment in the marine environment



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