When selecting a marine grade computer that meets both IACS E10/DNV and IEC 60945 standards, it's crucial to ensure that the chosen system complies with the requirements outlined by these standards. Here are the key considerations that align with both IACS E10/DNV and IEC 60945 standards:

1. **Environmental Specifications**: Verify that the marine grade computer is designed and tested to withstand harsh marine environments as per both IACS E10/DNV and IEC 60945 standards. This includes resistance to saltwater, humidity, temperature fluctuations, shock, and vibration, along with appropriate IP (Ingress Protection) ratings and compliance with MIL-STD ruggedness requirements.

2. **Performance and Reliability**: Ensure that the computer meets the performance and reliability criteria specified in both standards, including requirements for continuous operation, reliability, and availability in maritime applications. Confirm that the system's computing power, memory, and storage capacity are sufficient for the intended tasks and workload.

3. **Form Factor and Mounting Options**: Select a marine grade computer with suitable form factor and mounting options compliant with both IACS E10/DNV and IEC 60945 standards. Consider factors such as panel-mount, rack-mount, or compact enclosures suitable for marine installations, ensuring that the mounting configuration meets the standards for structural integrity and stability.

4. **Connectivity and Compatibility**: Choose a computer with connectivity features aligned with both standards, including support for Ethernet, serial ports, USB, and compatibility with marine communication protocols such as NMEA 0183/2000. Confirm that the system can seamlessly integrate with other marine equipment and systems as required.

5. **Display and Interface**: Verify that the marine grade computer's display and interface meet the visibility and usability requirements specified in both standards. This includes considerations for touchscreen capabilities, anti-glare coatings, high brightness displays, and user-friendly interfaces suitable for marine environments.

6. **Power Supply and Energy Efficiency**: Ensure that the marine grade computer meets the power supply requirements outlined in both IACS E10/DNV and IEC 60945 standards, including compatibility with DC power sources commonly used on vessels. Select a system with efficient power management features to optimize energy consumption and battery life in marine applications.

7. **Certifications and Compliance**: Confirm that the marine grade computer is certified to comply with both IACS E10/DNV and IEC 60945 standards, along with any other relevant industry standards, regulations, and classifications. This includes marine equipment directives, safety standards, EMC requirements, and shock/vibration resistance criteria.

8. **Supplier Reputation and Support**: Choose a reputable manufacturer or supplier with a proven track record of delivering marine grade computers that meet both standards. Ensure that the supplier offers comprehensive technical support, product warranties, and after-sales service to address any issues or maintenance needs.

By considering these key considerations aligned with both IACS E10/DNV and IEC 60945 standards, you can confidently select a marine grade computer that meets the specific requirements of your business while ensuring compliance with industry regulations and standards for maritime applications.

IVC Displays, Inc. can help you choose the correct Marine Grade Computer for your Project.

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