CAN Newsletter Online

IP65-RATED

Panel PC for maritime applications with optional CAN

Kontron offers the Flatclient MAR which is a panel PC for maritime applications. It is DNV GL- and IEC60945/IACS E10-compliant and can therefore be used in national and international shipping, marine engineering structures, and offshore wind farms.

CAN can be configured as additional interface (Source: Kontron)

The panel PC is designed to withstand extreme environmental conditions such as temperature fluctuations, strong vibrations, and jets of water. Its graphics performance guarantees detailed map displays and readability even in difficult lighting conditions, said the company.

The device is designed for command bridge and control room applications with installation in control cabinets, consoles, or control desks. The HMI (human machine interface) is operated via a capacitive multi-touch screen and is equipped with different Intel x86 processors that enable variable performance. The product series is available in six display sizes ranging from 10,1-inch to 21,5-inch. Its glare-free and flush glass front, a maximum resolution of 1920 pixels × 1080 pixels and a brightness of up to 500 cd/m^2, as well as (remotely) controllable backlighting ensure readability and visibility.

Each device can be configured with a variable memory of up to 16 GiB and an SSD with up to 512 GiB. At least 2x GbE and 4 USB interfaces are available as regular interfaces. Display interfaces are also available for connecting additional display units, e.g. for maintenance purposes. Further I/Os for example serial interfaces such as CAN, EIA-232, EIA-422, EIA-485), and RFID can be configured. Furthermore, the devices can be modified for a customer-specific branding.

The front panel, which is shielded according to protection class IP65, is protected against dust and water jets and can be cleaned. The metal housing withstands the environmental conditions in maritime applications and is tested according to IEC 60068-2-52 (salt water spray test). A cooling concept and economical system components allow for fanless and maintenance-free operation.

The nominal supply voltage is 24-V with a tolerance range of -25 % to +30 %. This already enables interference-free operation; the additional galvanic isolation of the input converter further improves the interference sensitivity.

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