KNDS

Flexible control unit for dynamic operating environments

Good, effective management relies on being fully informed at all times and under all circumstances, wherever your area of operations might be located. If you have an optimum overview, you can assess situations more accurately, take informed decisions on what to do next and avoid accidental damage. This requires IT systems which help soldiers to keep track of all the necessary information.

The PALLADION panel PC from ATM ComputerSysteme GmbH helps users to maintain a clear overview, work flexibly and make informed decisions. As an operation and display device for military land vehicles, the PALLADION enables crew members to navigate the available information effectively. The PALLADION panel PC is equipped with an 8th generation Intel processor, 16 GB RAM and a 240 GB SSD with fast erase function.

Reconnection enables a flexible response

Command and control instruments often need to be moved quickly between different workstations inside or outside the vehicle in response to different operational situations. The PALLADION features special connectors which allow it to be reconnected quickly so that information can continue to be processed above the hatch. The PALLADION is equipped with an integrated, maintenance-free capacitor buffering system, which allows it to be moved without any contact with the docking station. After a set waiting time, the PALLADION switches to standby mode, enabling the conversion process to be carried out more slowly. In order to avoid loss of data, the integrated buffering system allows the PALLADION to be shut down in a controlled manner if the vehicle loses power. The low weight of the PALLADION makes it easy to move and reconnect.

The capacitive multi-touch display of the PALLADION panel PC features full HD resolution and high luminance and is also readable with night vision devices.

Working above the hatch in all conditions

The 11.6 inch display features Full HD resolution with 1920x1080 pixels. With the EMC filter and touchscreen, the luminance is well over 600 cd/m². Thanks to the broad dimming range, the PALLADION is optimised for working with night-vision equipment; for example, when using the PALLADION above the vehicle hatch. The display brightness can be manually adjusted via buttons or with an application on the operating system.

Display control with finger movements

Entries are made on the PALLADION's capacitive display using multi-touch technology. The finger movements used to operate a smartphone can also be used on the PALLADION. The soldier can touch multiple points on the display at the same time in order to control the relevant application more effectively – even when wearing gloves. If necessary, ATM can adapt the sensitivity of the touchscreen to the appropriate type of glove. In addition, the PALLADION can also be operated by means of function buttons or via the peripheral equipment connected to the USB 2.0 interfaces.

The PALLADION as a central command and control instrument

ATM developed the PALLADION for a range of different applications.

The PALLADION is the unit that is used to operate the battle management system. Alongside the multi-touch display, function buttons are also available for this purpose. These buttons can be assigned to different entry fields, buttons and menus depending on the software application in question.

Furthermore, the PALLADION can display multiple IP video streams; for example, the view from the vehicle cameras. The PALLADION's integrated graphics processor makes it possible to decode H.264 and H.265 streams.

SysMon – information and monitoring interface

ATM's software application SysMon provides a cross-sectional software interface for monitoring and testing functions on the PALLADION. ATM SysMon detects faults or mission-critical system states at an early stage. ATM SysMon serves as an adaptable interface for in-vehicle testing systems, the battlefield management system or other logistics applications, allowing device-specific parameters to be read out or configured based on the relevant situation. Together with other vehicle interfaces such as CAN, this makes it possible to create a standardised, configurable user interface for visualising the vehicle system status. The CAN bus can be used, for example, to display engine data and electronics data for the vehicle

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