System Control Unit

Display and control hub for central vehicle functions

Uniform user interface in the vehicle

The great number of devices integrated into the vehicles and the system functions to be monitored require a manufacturer-independent interface that displays and controls all of the necessary information on the vehicle system and additional sensor stations. As uniform user interfaces, ATM system control units enable you to operate, access or configure vehicle- or device-specific functions. The system control unit reduces the number of manufacturer-specific monitoring panels that need to be integrated.

Display of vehicle information

Tailored to the vehicle, the system control unit displays information on the status of the vehicle, sensors, navigation, power management and other integrated equipment. This allows you to centrally manage and control other applications in the vehicle from the control station.

Compact panel PC for system functions

ATM system control units are a form of panel PC with a reduced range of functions specifically developed as a central operating and display unit for vehicle systems. Adapted to the vehicle and the spatial conditions, the system control unit is generally a small and compact device.

- Reduces the number of devices to be integrated
- Manufacturer-independent interface for control functions
- Sunlight-readable
- Suitable for plug-and-play operating systems
- Compact design for confined installation situations
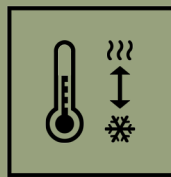- Scalable basic system

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Key features

IP65 protection

Environment acc. MIL-STD-810

Extended temperature range

High brightness

Technical data

Hardware variants

- System control unit with display size from 5" - 10"
- System control unit with predefined keys
- System control unit with analogue monitoring displays
- System control unit with touch display
- System control unit for dismounted operation
- System control unit with customer-specific design
- System control unit with customer-specific functions

Computer

- AMD or Intel® processor
- Customer-specific memory equipment
- Integrated graphics board
- Operating system
  Windows, Linux, Other operating systems on request;
  Supports plug-and-play capable OS

Display

- Display size 5" to 10"
- WXGA resolution
- Contrast 600:1
- Brightness 900 cd/m2
- Multi-level dimming up to masking

Overlay function

- Displays the function of the active keys
- Display of menus and symbols
- Display of variable data

Video functions

- Viewing video streams
- Displaying analogue video sources
- Displaying digital video sources
- Low latencies for video transmission

Interfaces

- USB
- Ethernet connection
- Serial interfaces
- CAN bus
- Digital video interface
- Interface for high-speed data transmission
- Connection for mouse and keyboard
- Customer-specific interfaces

Areas of application

- Operation as terminal
- Operation as stationary unit
- Operation as remote unit
- Operation as mobile unit with remote connection via radio

Environment

- Temperature, humidity, altitude, vibration, salt fog, shock according to MIL-STD-810
- Extended temperature range
  Standby: +83°C to +63°C
  Operation: -46°C to +63°C
  Storage: -46°C to +71°C
- EMC according to VG 95373
- IP 65 protection
- Vehicle electrical system according to VG 96916
- CE conformity

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