



Tailor-made high performance server

## Vehicle Server

### High-performance server system for extreme conditions

#### System for processing-intensive applications

As high-performance servers, vehicle servers from KNDS Deutschland Mission Electronics provide extensive services for data processing and storage in a military land vehicle and enable the use of artificial intelligence, deep learning methods and big data handling.

#### Use of current technologies

Vehicle servers are designed for high-speed information exchange. For this purpose, KNDS Deutschland Mission Electronics relies on cutting-edge technologies, high performance and a powerful CPU. The vehicle server is equipped with a processor that executes a large number of parallel and computer-intensive threads.

#### MIL-SPEC server for armoured vehicles

As the central computer instance in a military land vehicle, vehicle servers provide maximum security. In addition to the use of cryptographic methods, the servers are equipped with removable hard disk drives for red/black separation, as well as with redundant hard drive systems.

- » Fan-free server system
- » Heat dissipation by convection
- » Exchangeable hard disks for red/black separation
- » External control and monitoring via IPMI
- » CPU with 16 cores and 32 threads
- » System with CENTURION footprint

**KNDS**

## Key features



Fanless  
Computer system



IP54 protection



Environment acc to  
MIL-STD-810



On-board network acc  
to MIL-STD-1275

## Technical data

### Hardware variants

- / Vehicle server with or without removable hard disk drive
- / Vehicle server with variable number of SSDs
- / Vehicle server with CENTURION footprint
- / Vehicle server with customer-specific functions

### Computer

- / Intel® processor
- / CPU with 16 cores and 32 threads
- / 64-bit architecture
- / Customer-specific memory
- / Removable hard drives
- / Redundant internal hard drives
- / Integrated 10 Gigabit LAN
- / Operating system  
Windows, Linux, other operating systems on request

### Interfaces

- / Serial interfaces
- / Ethernet connection
- / Bit-serial connection
- / Analogue video interface

### Environment

- / Temperature shock, humidity, altitude, vibration, shock, according to MIL-STD-810
- / Temperature range  
Operation 0°C to +50°C;  
Storage -33°C to +71°C
- / EMV according MIL-STD-461
- / IP 54 protection
- / Vehicle electrical system according to VG 96916 & MIL-STD-1275
- / CE conformity

### Thermal management

- / Fan-free server system
- / Heat dissipation by convection

### Life Cycle

- / Obsolescence management
- / Life cycle support
- / Life cycle software
- / Upgrade management