



Computer for humid and dusty environments according to MIL-SPEC

## Rackmount Computers

### Versatile 19" rack system

#### From road vehicles to ships to industrial facilities

The ruggedized rackmount computers from KNDS Deutschland Mission Electronics are designed for use in shelters, on ships, in wheeled vehicles or for industrial or security-related official environments. The 19" computers are suitable as workstations in red/black environments, as servers for computer and memory-intensive applications or for cloud and edge computing.

#### Exact fit thanks to rack format

Configured for the customer's individual requirements and qualified according to MIL-SPEC standards, KNDS Deutschland Mission Electronics offers computers with cutting-edge processors, technologies and varying height units.

#### Modular and expandable computer

Flexible configuration, expandability and upgradeability combined with a robust housing make a versatile computer. This is not only attractive for the military sector but also for civilian industrial environments which require reliable, low-maintenance computers.

- » With and without integrated fans
- » Heat dissipation by convection
- » Low-noise computer system
- » Optimised for classified workplaces
- » Operation with 24VDC or 230VAC
- » Function expansions via plug-in cards

**KNDS**

## Key features



Compatibility through  
19" rack format



Thermal management  
by convection



Environment acc to  
MIL-STD-810



On-board network acc  
to MIL-STD-1275

## Technical data

### Hardware variants

- / 19" system with 1 height unit
- / 19" system with 2 height units
- / 19" system with 4 height units
- / 19" system with exchangeable HDD for red/black areas
- / 19" system according to NATO SDIP 27 Class B
- / 19" system with customer-specific functionalities

### Format factor

- / As a standard size, the 19" rack format makes the systems compatible with many military and civilian installations.

### Computer

- / Intel® processor
- / CPU with 16 cores and 32 threads
- / 64-bit architecture
- / Customer-specific memory
- / Allows multiple SSDs
- / Enables exchangeable SSDs
- / Integrated graphics board with resolution up to full HD
- / KNDS Deutschland Mission Electronics offers a baseboard management unit as an optional feature
- / Operating system  
Windows, Linux, all 64-bit operating systems

### Power supply

- / 90 – 260 VAC
- / 18 – 32 VDC
- / Vehicle electrical system according to MIL-STD-1275

### Function expansion

- / COTS components
- / Integrating plug-in cards

### Interfaces

- / Ethernet connection
- / Fibre optic interface
- / Bit-serial connections
- / Digital video interface
- / Analogue video interface
- / Image processing interfaces
- / Connection for mouse and keyboard
- / Audio interface
- / Serial interfaces
- / Serial bus
- / PCI bus interface

### Environment

- / Temperature shock, humidity, altitude, vibration, shock, according to MIL-STD-810
- / Temperature range  
Operation 0°C bis +50°C  
Storage -33°C bis +71°C
- / EMV gemäß MIL-STD-461 & VG 95373
- / IP 50, 51 or 54 protection
- / Vehicle electrical system according to MIL-STD-1275
- / CE conformity

### Radiation

- / KNDS Deutschland Mission Electronics develops and qualifies its 19" systems according to NATO SDIP 27 Class B upon request

### Thermal management

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