Computer for humid
and dusty environments
according to MIL-SPEC

Rackmount Computers

Versatile 19" rack system

From road vehicles to ships to industrial facilities

ATM's ruggedized rackmount computers are designed for use in shelters, on ships, in wheeled vehicles or for industrial or security-related government 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, ATM offers computers with cutting-edge processors, technologies and varying height units.
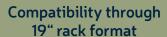
Modular and expandable computer

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.

- Systems with and without integrated fans
- Heat dissipation by convection
- Low-noise computer system
- Optimised for work areas with red/black separation according to COMSEC
- Operation on 24 VDC or 230 VAC mains power
- Function expansions via plug-in cards

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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

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
- ATM 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

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
- ATM develops and qualifies its 19" systems according to NATO SDIP 27 Class B upon request.

Thermal management
- Fan-free system
- Heat dissipation by convection

Function expansion
- COTS components
- Integrating plug-in cards

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

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