



Deployable Network

The Self-Supporting Network Structure
for Units of Troops in the Field

Deployable Network

„I would like to express a little praise for the guys from steep, because both towers run super stably, even at an outside temperature of 40°C and a lot of dust. The Deployable Network even survived the 1400 km long and tough overland transport trough the [...] desert. Unprotected and palletized. Good job, guys!“

The deployable network has the purpose of providing a self-supporting, localized network infrastructure for units of troops in the field. In addition to providing a network access for users and a local supply, it ensures all features of a convergent network according to public standards and, by doing so, enables the operation of all applications (for example central services, command and expert information systems) on a standardized network.



The System

Each system of the Deployable Network consists of a Network Core Module (NCM) and at least five Access Modules (AM). One Network Core Module is composed of two completely identical submodules (NCM submodule I and NCM submodule II). This redundancy ensures that the system can still work unrestrictedly even if one of the submodules has a malfunction.

The submodules are composed of four 19" cases: The Cooling Cube, the UPS module as well as the modules A and B. In a design for 60 users (for example), five AMs with 18 users each are connected to the system. The connections between the submodules are realized with fiberoptic cables.

19" Cases Network Core Module (NCM) and Access Module (AM)

Technical Specifications:

- Slidable 19" rack (fast replacement)
- Tested according to MIL-STD 810F including components
- Case shielding according to MIL-STD 461E and HF-shielded
- Lifting eyes for transport and setup
- Customs bonds back and front
- 19" stainless steel frames
- Desiccant compartment in the lid
- Humidity indicator
- Automatic pressure valve
- IP64 in transport condition
- IP54 in operation



19" Cooling Cube

Technical Specifications:

- No exchange between inside and outside air (two-circle system)
- The temperature of the internal warm air flow shows on the display of the front panel
- IP54 protection during operation, IP64 during transport
- Fields of application: Cooling, heating and dehumidification of 19" components
- Cooling: 4500 watt (15390 BTU/h)
- Heating: Fast heating at low temperatures
- Compressed-air supply in 19" cases
- Maintenance-free and user-optimized MES 1+2
- Cooling Cube is designed for fast replacement
- Total weight Cooling Cube: 69 kg
- The internal supply and exhaust air flow is displayed on the network management

Thermoelectric Cooling

Technical Specifications:

- Features: Cooling and dehumidification of 19" cases above 6U
- IP54 protection in operation, IP64 protection during transport
- Cooling capability: 180 watt (3 units)
- Heating function fulfilled by a separate radiator
- Maintenance-free and user-optimised
- Unit weight 10,5 kg (3 units)
- No exchange between inside and outside air membrane





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