Altron

Micro DC

A tailored solution integrating the best technologies in the industry

WINNER
VIZIONÁŘI 2018
Micro DC
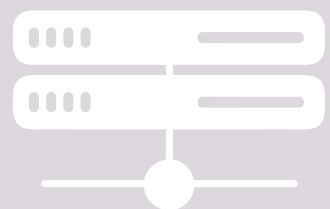
www.altron.net

Micro DC is a unified infrastructure, which fully integrates electric, cooling, security and monitoring systems in one secured enclosure. Micro DC delivers instant IT capacities without any construction work. Just add your IT equipment.

Features

A safe and highly accessible IT environment is the foundation of practically any business today. Our original Micro DC has been developed as a suitable foundation for consolidating IT infrastructure.

IT ready solution in one rack

- A modern, prefabricated alternative to a server room
- Pre-manufactured and pre-tested prior to delivery and deployment to client site, minimizing any construction work

Unique Design & Components

- The heart of the Micro DC is the Altron Smart Management Unit. This unit integrates electric, cooling, monitoring and security systems.
- The Altron Smart Management Unit (ASMU) is an advanced smart power distribution with monitored, metered and switched power distribution units.
- Altron Smart Ventilation Unit & Smart Cooling Unit

Protecting Critical ICT Equipment

- Altron Smart PDUs (ASPDU) provides real-time power metering and configuration of individual outlets: overcurrent and short current protection.
- Eliminating power source failure through soft start results in extended ICT resistance and lifetime.
- A local power outlet failure does not affect the whole ICT system availability.

Applications

- Digital infrastructures: government, city municipal authorities, telecommunications networks, smart cities, Internet of Things (edge computing)
- Transition to hybrid cloud
- Reconstruction of existing server rooms
- Military operations require robust, mobile, and easy to deploy solutions in the harsh environments of military bases and remote operations
- Industrial applications: exploration, research, and manufacturing
- Healthcare sector
- Branch offices of banks, insurance companies, telco operators and government bodies

1	Visualization Module	4	Altron Smart Ventilation Unit
2	Fire extinguishing	5	Altron Smart PDU
3	UPS	6	Altron Smart Management Unit

Benefits

- Efficient operation and low OPEX
- Fast time to market
- Flexibility in buying Micro DC either as investment or service
- Elimination of civil engineering works and related approvals
- Mobility
- Short period of deployment and re-deployment

Micro DC Specifications

Standard Features

Micro Data Centre type	Comfort	Revolution
ICT power	2.5 kW	5/6.5 kW
Input power	230 V, 16 A char. C, 50–60 Hz	400/230 V, 16–40 A char. C, 50–60 Hz
Rack power distribution	From 1+0 up to 3+3 Altron Smart PDUs	from 1+0 up to 3+3 Altron Smart PDUs
UPS autonomy time	3–10 min	3–10 min
Real-time monitoring	Altron Infrastructure Monitoring (AIMON)	Altron Infrastructure Monitoring (AIMON)
Intelligent Management System	Altron Smart Management Unit (ASMU)	Altron Smart Management Unit (ASMU)
U-positions for ICT	37 U	29/27/25 U
Dimensions	750 × 1200 × 1970 mm (w × d × h)	750 × 1200 × 1970 mm (w × d × h)
Weight	300 kg	320/340/380 kg
Colour	Black RAL 9005, White RAL 9010	Black RAL 9005, White RAL 9010
Operating conditions	–10 °C to 50 °C	–10 °C to 50 °C
Type of cooling	Altron Smart Ventilation Unit	Direct Expansion
Air temperature for ICT equipment	Depends on room temperature	18 °C to 27 °C
IP protection	IP 20	IP 54
Fire alarm system	✔	✔
Electronic access and security system	✔	✔

Optional features

- PUE analytical module
- Visualization server with control touch panel
- Extra ASPDU
- CCTV

- Biometric access system
- Fire extinguishing module (Novec 1230/FM 200)
- Additional battery pack
- Dual Power Distribution (maintenance mode)

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Why Altron?

- With more than 25 years' experience in all aspects of data centres and mission-critical technologies, we build state-of the art solutions for a wide range of clients.
- We do so by offering a complete service, from consultancy and design to data centre operation, maintenance and management.
- Our R&D team actively contributes to the development of the global data centre sector by inventing and developing innovative solutions.

More than a Data Center