Herman IT

HERMAN IT
DATA CENTER TECHNICAL SPECIFICATION

High Performance Computing Optimized Data Center in Kajaani –
Home of the Leading European HPC-Ecosystem

HERMAN IT'S DATA CENTER it is located in a former UPM paper mill site at Kajaani's Renforsin Ranta Industry park, which also is the home of the new EuroHPC-supercomputer. Data center benefits form the existing heavy industrial infrastructure, abundance of green energy, cool climate and sound geographical environment.

SECURITY

- ISO/IEC 27001:2013 certified practices and risk analysis
- Access controlled and fenced area
- Centralized access control authorization
- Access control with two phased authentication
- Access groups and scheduled access
- Intrusion detection system
- Building-in-building construction
- Multiple security zones
- Single-tenant environment
- Very limited access to server halls
- Video surveillance system (internal and external)
- Facility maintenance can be done without entering the Server Halls
- On-site Infodesk
- Security patrols
- Direct alarms to on-duty security officer

CONNECTIVITY

- Carrier neutral
- Multiple fiber connections from different geographical directions.
- Dark Fibre available

FI-CIX3 Oulu = 1,9 ms
FI-CIX1 Espoo = 6,7 ms
I-CIX2 Pasila, Helsinki = 6,7 ms
C-Lion Frankfurt = 26,4 ms

ELECTRICAL

- 900 MW National Grid Substation, reliability 99,99999%
- Line voltage 110 kV and 10 kV on site
- 230 MW main transformer capacity (5 transformers)
- Power infrastructure is located inside a secured Business Park area.
- Available renewable green energy sources: Kainuun Voima bio boiler inside Business Park (88 MW), three (3) hydro power plants (total 30 MW) with direct connection to Business Park within 3 kilometers.

MECHANICAL

- Preventive maintenance
- Two separate server halls
- Cool climate enables free cooling
- The thermal properties of the air delivered to the Server Halls is compliant with the ASHRAE TC 9.9 guidelines.

FIRE PREVENTION

- Multiple fire zones. Technical facilities separate from the Server Halls.
- Small fire load inside and near the buildings
- DFA early and accurate smoke detection
- Automated argon gas fire suppression system divided in five different extinguishing areas.
- In addition portable carbon dioxide fire extinguishers and fire extinguisher trolley
- Fire alarms straight to fire department, on duty security officers and maintenance
- Firemen trained to work in the DC environment.