FRA3

CyrusOne Data Center
Frankfurt - Sossenheim
Willhelm Fay Strasse
Frankfurt am Main
Germany

Latitude: 50.128098
Longitude: 8.582833

CyrusOne FRA3 is a brand-new purpose-built data center offering cloud providers, systems integrators and multinational corporations customised, secure and resilient data center solutions within a key business hub.

The facility is strategically located in Sossenheim, the preferred location for data centers in Frankfurt, Germany's "Digital City". It sits just 500 meters from CyrusOne **FRA1** and **FRA2**, delivering 22 MW of IT power to 11,560 sq m (124,431 sq ft) of world-class technical space, with each data suite customised to individual client specifications.

Overview

- 22 MW of IT power delivered to 11,560 sq m (124,431 sq ft) of world-class technical space within two attached, four storey, data centers
- Active / Active 110 kV dual redundant power supplies with fully flexible IT power solutions
- Connection to the European high voltage grid via two independent substations (separate from Frankfurt I and II)
- Ultra-low PUE through the use of Indirect Adiabatic Air Cooling to each data hall
- Highly resilient, concurrently maintainable power and cooling to Tier III+
- Carrier neutral access and diverse fibre connectivity to active A&B Meet Me Rooms from multiple telecommunication providers
- Bespoke and scalable data halls
- Multilayer industry-leading levels of physical and electronic security
- Dedicated offices, buildroom and/or ancillary space adjacent to each hall
- Dedicated N+N electrical infrastructure to each data hall
- Secure managed delivery bays with 3 tonne goods lifts
- 24/7 year round onsite support

FRA3 Technical Specifications

Building

- 11,560 sq m (124,431 sq ft) of technical space within two attached, four storey, data centers
- Floor loading 12 kN per sq m
- Delivery bay with access to two 3-tonne goods lifts
- Bespoke and scalable data halls
- Dedicated offices, buildroom and/or ancillary space adjacent to each hall, built to your requirements
- On-site electric vehicle charging points

Power

- Operated with 22 MW of IT power
- Active / Active 110 kV dual redundant power supplies with fully flexible IT power solutions
- Connection to the European high voltage grid via two independent substations
- N+N power solutions dedicated to each hall
- Minimum N+N UPS with 10-minute battery back-up as standard
- Fully rated N+1 MV back-up generators with 48-hour fuel autonomy at full load, capable of continuous running
- Re-fueling contracts in place to ensure timely replacement
- All IT power metered and charged as consumed at dedicated MV meters

Cooling

- N+1 Indirect Adiabatic Air Cooling to each data hall resulting in ultra-low PUE
- Cooling infrastructure individually managed and linked to BMS
- Independently regulated temperature and humidity to each space utilising hot aisle containment
- A&B Power Supplies to cooling equipment for full redundancy (local ATS's)
- Highly resilient, concurrently maintainable power and cooling to Tier III+
- 1,300 mm return air plenum with 4,400 mm clear height in the data hall

Connectivity

- Carrier neutral access and diverse fibre connectivity to active A&B Meet Me Rooms from multiple telecommunication providers
- Access to the world's largest Internet Exchange DE-CIX
- Diverse cable routing into facility to dual MMRs
- Strict cable management policy

Energy Efficiency

- Ultra-low PUE through the use of Indirect Adiabatic Air Cooling to each data hall with free cooling capacity
- Scalable UPS capable of ECO and sequence modes
- Variable speed drive adiabatic fans
- ASHRAE T9 hall conditions
- Air cooled plant rooms with variable speed fans
- Rainwater recovery for reduced water usage

Fire Detection and Suppression

- Three-stage fire detection systems into data halls and UPS plant areas
- VESDA (Very Early Smoke Detection Apparatus) in data halls and UPS plant rooms for early warning
- Fire detection in all rooms, ceiling return air plenums and in voids as required
- Gas suppression to data halls and UPS rooms with dedicated bottles
- Double knock approach gas suppression to all areas, single zone activation
- Fire detection and suppression systems interconnected to central BMS

Building and Energy Management systems (BMS and EMS)

- Power and building monitoring systems to provide alarms
- Power surge management
- 24/7 year round on-site M&E engineers undertaking Planned Preventative Maintenance (PPM) programmes
- Real-time monitoring of electrical and mechanical systems

Security

- High security perimeter fence
- External CCTV and Geoquip trembler wire to fence
- Dual vehicle locks to site entrance with dual gates and physical ram protection
- 24/7 year round on-site security located in secure control room
- Extensive CCTV and access control throughout the facility
- Progressive layers of security restrict access throughout the site and facility
- Mantraps with biometric readers into data halls if required

Compliance (Operated to International Standards)

- ISO 14001 Environmental Management
- ISO 27001 Information Security Management
- ISO 9001 Quality Management
- ISO 50001 Energy Management

Typical Floor Plan