

FRA1

CyrusOne Data Center

📍 Leonhard-Heiwolf-Str. 4 65936,
Frankfurt am Main, Germany



Introduction

CyrusOne FRA1 is a world-class purpose-built facility offering high specification technical space within one building arranged over five floors.

The facility is strategically located in Sossenheim, the preferred location for data centers in Frankfurt, Germany's "Digital City". It sits adjacent to CyrusOne FRA2, delivering 9.1 MW of IT power to 4,962 sq m (53,410 sq ft) of world-class technical space, with each data suite customised to individual client specifications.





Overview

- 9.1 MW of IT power delivered to 4,962sq m (53,410 sq ft) of world-class technical space
- Active / Active 110 kV dual redundant power supplies with fully flexible IT power solutions
- Highly competitive power pricing due to the 110kV power feeds
- Connection to the European high voltage grid via two independent substations
- Energy-efficient with a PUE of 1.3 at design load
- Highly resilient, concurrently maintainable power and cooling to Tier III+
- Bespoke and scalable data halls, sized to customer requirements
- Excellent diverse connectivity with multiple fibre providers
- Dedicated electrical plant to each floor
- 24/7 year round building operation with dedicated staff located on site



Technical Specifications

BUILDING

- 4,962sq m (53,410 sq ft) of technical space within one building over 5 floors plus basement level
- 24/7 year round building operation
- 800mm raised floor with 3.4 metres to underside of soffit
- Secure managed delivery bay with 3-tonne goods lift
- Floor loading 10 kN per sq m
- 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

- 9.1 MW of IT power delivered to 5,000 sq m (53,820 sq ft) of world-class technical space
- Active / Active 110 kV dual redundant power supplies with fully flexible IT power solutions
- Highly competitive power pricing due to the 110kV power feeds
- Connection to the European high voltage grid via two independent substations
- All IT power metered and charged as consumed at dedicated MV meters
- N+N power solutions dedicated to each hall
- Minimum N+N UPS with 10-minute battery back-up as standard
- Fully rated N+N back-up generators with 36-hour fuel autonomy at full load, capable of continuous running
- Refueling contracts to ensure timely replacement

ENERGY EFFICIENCY

- Scalable UPS capable of ECO or sequence operation
- Scalable water cooled chillers with free cooling capacity
- ASHRAE T9 hall conditions

- Air cooled plant rooms with variable speed fans
- DFU supply temperature control
- PUE at a design load of circa 1.3

COOLING

- N+1 adiabatic cooling plant
- Cooling infrastructure individually managed and linked to BMS
- Dedicated DFU's at N+2 to each hall
- Independently regulated temperature and humidity to each space
- Option for air cooled solutions if required

CONNECTIVITY

- Carrier neutral access and diverse fibre connectivity to active A&B Meet Me Rooms from multiple telecommunication providers including euNetworks, BT, Cogent, Colt, Deutsche Telekom, CenturyLink and Verizon
- IBM Cloud on-ramp available onsite
- Strict cable management policy

FIRE DETECTION AND SUPPRESSION

- Three stage fire detection systems into data halls and UPS plant areas
- VESDA (Very Early Smoke Detection Apparatus)
- Fire detection in all rooms, below raised floors and in voids as required
- Gas suppression to data halls and UPS rooms
- 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 & EMS)

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

SECURITY

- 3-metre high secure perimeter fence
- External CCTV and Geoquip trembler wire to fence
- 24/7 year round on-site security located in secure control room
- Extensive CCTV and access control throughout the facility
- Progressive layers of security to restrict access through the site
- Swipe card access

COMPLIANCE (OPERATED TO INTERNATIONAL STANDARDS)

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

Floor Plan

