

PURPOSE BUILT WITH A BEST IN CLASS OPERATIONAL TRACK RECORD

Frankfurt South Technical Specification



**UNINTERRUPTED
POWER**



**BESPOKE
SOLUTIONS**



**NETWORK
DENSE**



**CLOUD
CONNECTIVITY**

GLOBAL SWITCH

Global Switch is a leading owner, operator and developer of large-scale, multi-customer, carrier neutral data centres across Europe and Asia-Pacific. Our data centres provide a rich carrier and cloud-neutral ecosystem and offer the reliability, security and flexibility that our customers require to house their IT infrastructure.

Services	Key benefits	
Private Suites These self-contained areas, which can include 24x7x365 network operating centre facilities, are designed and built to customers bespoke specifications.	Scale: Scalability with over 4,200,000 sq ft (390,000 sq m) across thirteen world-class, fully-fitted data centres.	Bespoke solutions: Solutions can be tailored to individual customer requirements.
Cages The Global Switch cage solution offers the benefits of large-scale resilience for medium sized IT space and power requirements. This solution provides secure private areas for customers and offers flexibility in design and layout.	Flexibility: Access to the full range of space and power solutions with flexibility to meet your needs.	Environmental commitment: Energy efficiency is at the core of our business. Through innovation in design, operation and working closely with our customers, we are continually improving the energy efficiency of our data centres.
Racks Racks situated in colocation areas are a vital resource for businesses looking to outsource critical IT infrastructure, establish a presence in multiple strategic locations, or those wishing to increase their footprint as their space requirements grow.	Network dense: Data centres that are located adjacent to central business districts exclusively in Tier 1 markets offer connectivity rich, low latency solutions with direct access to the major international fibre routes.	Operational excellence: Key ISO certifications complement a robust Critical Environments Programme which is central to applying and maintaining best in class practices across our global data centre portfolio.
Meet Me Rooms Meet Me Rooms offer telecommunications companies highly secure purpose built areas to house their network infrastructure in order to connect with a host of companies and organisations within the data centres.	Competitive options: A strong diverse service provider ecosystem ensures that customers have access to competitive pricing for a complete range of services.	Financial strength: A financially secure owner and operator with investment grade credit ratings.
	Resilient Infrastructure: Global Switch provides uninterrupted power with multiple layers of redundancy, optimised cooling and security. Monitoring of these key components through highly sophisticated building management systems is backed up by 24x7x365 security and technical support teams.	



WORLD-CLASS
DATA CENTRES



OPTIMISED
COOLING



CARRIER
NEUTRAL



HIGHLY
SECURE



ENVIRONMENTAL
COMMITMENT



OPERATIONAL
EXCELLENCE

FRANKFURT SOUTH



Location

- The data centre is located 5.5km from the financial district and city centre
- A S-Bahn station is located within a 15 minute walk
- Frankfurt International Airport is 15 minutes away by car

Building Overview

- Global Switch owns the freehold
- Purpose built
- Exceeds Tier III operational performance
- 17,686 sq m of gross space
- 3 data floors
- Flexible IT space with ability to create bespoke environments as required

Main Structural Features

- Reinforced concrete frame with reinforced concrete floors, metal faced cladding and glazing
- 4m slab to slab height
- Raised floor height of 600mm
- Minimum from raised floor: 3m raised floor height to underside of deepest beam
- Floor loading of 10kN/m²
- 1 goods lift (8 tonnes), 2 passenger lifts

Power

- 10kV utility supply with N+N redundancy
- Utility power supply capacity of 14MVA (current)
- Technical (IT) power supplied by on-site Diesel Rotary UPS with N+2 redundancy
- Mechanical systems backed up by 2 x 1.6MW standby generators with N+N redundancy
- Fully diverse power distribution to technical areas
- On-site fuel storage to support 24 hours at full capacity with 24x7x365 fuel delivery
- Offering 1,000 W/m² as standard, with higher power density solutions fully supported

Cooling

- 11.8MW of installed cooling provision
- Minimum N+1 resilience on all systems
- CRAH units control temperature and humidity in technical space within the recommended range of ASHRAE TC9.9
- Diverse distribution pipework throughout
- Chilled water cooling system with free cooling capability

Security

- Operations Centre manned 24x7x365
- Security guard patrols 24x7x365
- Continuous CCTV surveillance of external and internal areas
- CCTV records kept for 31 days
- Comprehensive intruder detection and alarms to all areas
- Strict access control procedures to ISO 27001
- Access control using proximity card readers
- Physical access via turnstile
- Secure managed delivery and loading area available 24x7x365

Connectivity

- Carrier Neutral
- Network dense with access to multiple global and regional carriers and Internet service providers offering Dark Fibre, Wavelength, Ethernet, MPLS, VPLS, IP Transit, Peering, CDN, Storage, Virtualised Services (SDN), Voice and Mobile Services
- Access to multiple cloud services through leading public, private and hybrid cloud solution providers
- 2 dedicated Meet Me Rooms
- 2 diverse building entry points
- Diverse cable routes and pathways
- Roof space availability for satellite and antennae equipment
- DE-CIX present

Fire Detection and Suppression

- Analogue addressable fire detection system in all areas
- Aspirated early warning smoke detection system (monitored 24x7x365)
- Argon gas suppression system in technical areas

Critical Environments Management

- Experienced 24x7x365 facilities management team
- Environment (thermal conditions) monitored 24x7x365
- All Building Management Systems (BMS) monitored 24x7x365
- Comprehensive energy metering systems
- Internationally recognised critical environments programme

Other Services

- Cross connects
- Customer reports
- Deliveries and storage
- Design and build
- Fit-out
- On-site facilities
- Remote hands
- Technical cleaning and waste disposal

Certifications

- ISO 9001, 14001, 27001, 45001, 50001

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