

MAINRZ

powered by NEWTELCO

Located in Karlstein am Main and close to the international telecom hub of Frankfurt am Main, MainRZ will serve global players needing an additional presence in the heart of the EU, as well as national & international SME of all kind of industries.

All starts with having two independent sources of electricity at 5 MW, including the dedicated photovoltaic system, as well as a concept for using the heat the DC produces in collaboration with the local community. The goal is to be as green as possible in alignment with Tier IV/VK 4 requirements for power and telecommunication connectivity.



Data center space

- IT and colocation space in 3 cubes: 1000 m²
- flexible colocation deployments: units, single rack colocation, cages
- elevated raised floor height 100 cm
- available ancillary spaces: offices, equipment storages and pre-installation rooms
- meeting rooms available
- separated and independent technical areas
- customer shower and changing room

Cooling

- cooling systems with modern highly efficient air conditioning and redundant climate control, N+1 redundancy
- weather-dependent / DX-dependent energy management system
- Computer Room Air Handler (CRAH) units available
- climate control via blown-in air in row
- concurrently maintainable AHUs providing fresh air pressurization and humidity control
- cold aisle to support high densities
- heat recovery for pre-heating the emergency and standby power systems
- regulation of air humidity (45%-55%) and room temperature (19-21°C)

Power

- off-site substation delivering 5MW of power
- flexible client IT load
- average power density of 1.5-2.0kW/m²
- two independent sources of electricity at 5MW, including the dedicated photovoltaic system
- two separate UPS systems (A- and B-supply), N+N redundancy
- emergency power system with diesel generators, N+N redundancy
- available UPS: 230V/400V – capacity 1.5MVA
- UPS redundancy
- 7-12kW normal power per rack, higher on request
- total electric output – 1.5MVA
- available DC power – 48V

Fire protection

- automated fire protection system on all levels with fire damper and smoke extraction
- Very Early Smoke Detection Alarm Systems (VESDA) in the return air path
- firefighting gas system
- fire protection absorbing walls and doors

Service Level Agreement

- 99.999% power uptime availability
- designed in alignment with Tier IV/VK 4 requirements for power and telecommunication connectivity
- precise definition of critical services and availabilities
- clear commitment to the environment in all aspects

Additional services

- consulting services and implementation
- planning for projects
- client implementation
- installation services
- remote hands services provided by the technicians on-site
- facility services
- DR Workspace

Connectivity

- carrier- and cloud-neutral
- redundant meet-me-rooms
- carrier mix from global Tier 1 suppliers to regional suppliers
- connectivity to the major carrier hubs
- redundant, structural cabling infrastructure with diverse paths
- pre-cabling to support fast cross connection deployments
- high-performance internet access
- connectivity between NewTelco data centers for flexible solutions
- NewTelco Neutral Connectivity Exchange platform to connect our clients to major service providers

Security

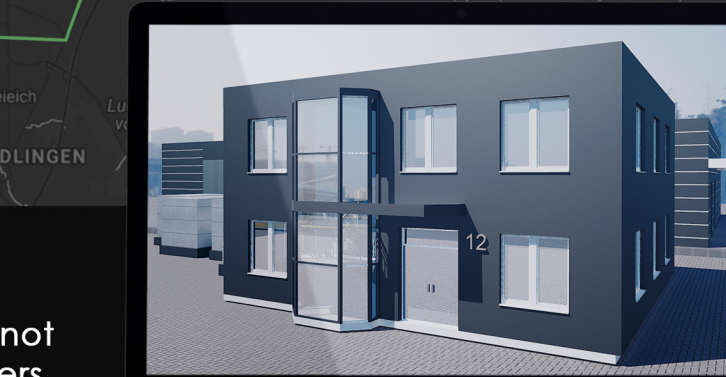
- NOC for security and operation, available 24/7
- CCTV 24/7 building monitoring and security with recording and archiving
- constant monitoring of all critical functions to secure rental areas and technical operation
- security perimeter fence
- video surveillance systems for the external perimeter
- card swipe entry/exit to all doors
- preventive risk assessment, continuous testing and training of technical staff

Network

- redundant Layer 1, Layer 2 network connectivity
- three dark fiber routes to Frankfurt
- DWDM 10G/100G
- connected to NewTelco Frankfurt Metro Network
- Ethernet Exchange (Neutral Connectivity Exchange platform) for 1G & 10G ports
- DE-CIX enabled node



Thanks to the direct fiber optic connection to Frankfurt, MainRZ is not only a speed champion; it also offers a unique security of supply. Situated right on the border of two German states, Hesse and Bavaria, it gets the electricity from two completely independent sources. This almost eliminates the risk of downtime.



Another advantage is complete flexibility in the choice of carriers, again thanks to MainRZ's own fiber optic connection to Frankfurt. As a result, customers can connect with hundreds of different carriers around the world and are not bound to the traditional local providers.