

# Data center

Cologne (CGN3)



The CGN3 data center is located at our headquarters in Cologne. It was planned by plusserver down to the smallest detail to meet the highest requirements for a secure and available data center.

The PCI DSS certification makes it the best choice for e-commerce in particular. In addition, the ISO 27001 certification confirms the exemplary handling of sensitive data.

## Building

<b>Total area</b>	2,500 m <sup>2</sup> (including technology)
<b>Construction</b>	Built in 2006/2007 Reinforced concrete exterior walls Interior walls in F90 design Doors with smoke protection
<b>Floor space</b>	3 rooms of 550 m <sup>2</sup> each (floor space for 18,000 servers)

## Access and security

<b>Access</b>	Personalized ID and PIN request
<b>Video surveillance</b>	Surveillance cameras with motion detection throughout the building and outdoors
<b>Infrastructure</b>	Monitoring by plusserver 24/7 with staff on-site and on standby Monitoring of 2,000 data points in the entire infrastructure
<b>Racks</b>	Secured by PIN and own BKS locking system

## Network

<b>Tier 1 carrier</b>	Premium mix (e.g. TeliaSonera, Level3, DTAG)
<b>Router technology</b>	e.g. Cisco, Juniper
<b>Network technology</b>	Juniper Brocade SAN, F5, Fortinet
<b>House lead-ins</b>	Three separate lead-ins

Separate cable trays for copper and glass above the racks, suspended from the ceiling

<b>Power supply</b>	Depending on configuration, fully redundant thanks to different power distributors
---------------------	--

## Air conditioning

<b>Supply air system</b>	For data center rooms and technical area
<b>Data center</b>	Circulating air cooling units (2n)-redundant
<b>UPS/LVMD rooms</b>	Circulating air cooling units (2n)-redundant
<b>Pumps</b>	(n+1) redundant
<b>Heat exchangers</b>	In the outdoor area with 3,000 kW (n+1)
<b>Cooling</b>	2 MW cooling capacity
<b>False floor</b>	700 mm
Cold/warm aisle containment with rack temperature monitoring	
Heat recovery for heating of offices	

## Electrical technology

<b>Power connection</b>	Dedicated 10 kV line to substation, own medium voltage main distribution and two transformers
<b>Emergency power supply</b>	2.0 and 2.5 MVA
<b>Engine</b>	MTU
<b>Tanks</b>	4,000 and 7,000 liters Contracts with oil suppliers (also on Sundays and public holidays)
<b>IT racks (A/B)</b>	Supply up to 6x 16 A
Overvoltage protection of sub-distribution and short circuit monitoring per outgoing line	
<b>UPS</b>	2,400 kW (n+1)
<b>Battery hold time</b>	12 minutes at full load
<b>Power supply</b>	Depending on configuration, fully redundant thanks to different power distributors

## Fire protection

Fire alarm system with connection to the fire brigade	
<b>Fire detector</b>	In false floor and on ceiling
<b>Fire extinguishing system</b>	Argon, Fire is extinguished from above (ceiling) and below (false floor)
Early fire detection with VESDA system	

### plusserver

A sovereign, future-proof and secure cloud.

We offer German companies a sovereign and vendor-independent foundation for their digital business processes. On our secure, scalable cloud platforms, customers can implement future-proof and cost-effective digital applications. We advise our customers on cloud architectures and the integration of existing IT environments. Our approach is fast, dynamic and always personal.

### Do you have any questions?

**Feel free to contact us.**

**We are here to help - quickly and easily.**

+49 221 8282 8550

sales@plusserver.com

