

IONOS *fasthosts*

IONOS & Fasthosts – Data Centre Worcester



Location

Worcester, [Worcester Six Business Park](#)

Our data centre in Worcester is well situated almost in the middle of the UK's fibre figure of eight in Worcester Six Business Park about 25 miles southwest of UK's second biggest city Birmingham. Excellent optical fibre connectivity is given through the fibres which are passing close to the Business Park with connectivity to the whole UK and abroad.

Furthermore Worcester Six Business Park provides an excellent power infrastructure and a lot of sustainability features to operate a safe, secure, highly-available and sustainable data centre.

The data centre is designed and built to Tier IV standard. Furthermore the data centre is designed and built modular. Each data center module is fully independent from the other modules and technically speaking a own data centre in itself. Currently two modules are built out and there is expansion space for three further modules available to support IONOS further growth in the UK. In further modules also technological progress can be considered. Furthermore a auxiliary building with a office with workplaces for data centre and other staff and data center logistics area is available.

Space

- Shell with 30,729 sq ft (2,855 m²), extendible by further 8,116 sq ft (754 m²)
- Auxiliary Office & Logistics building with 12,978 (1,206 m²)
- White space per data centre module: 3,724 sq ft (346 m²)

Design

- Modular, easily extendable
- Each module is a own data center in itself
- Tier IV design (fault tolerant - availability of 99.995%)

Capacity per module

- 110 Racks
- 648 kW IT load

Power usage effectiveness (PUE)

- ≤ 1.25

Security

- 3.60 metre high security fencing with perimeter protection
- Internal and External IP CCTV with complete site coverage
- Strict access policy & control
- Intruder alarm system
- Leak detection
- Certified security & fire rated doors, walls and ceilings
- Strict compartementilization according to Uptime Institute Tier IV requirements
- Very early fire detection by aspirating smoke detection and high sensivity sensors
- Nitrogen fire suppression in critical rooms

Power

- Two divers supplies from the grid, with each currently 5 MVA (upgrade possible)
- N+1 UPS plant (4x 300 kVA) per data centre module
- N+1 LV DCC generator plant (4x 550 kVA) per data centre module (HVO Diesel storage for 48h run time at full load + Priority fuel contracts)

Cooling

- Highly efficient chilled water cooling system configured as N+1 per data centre module
- Free cooling chillers (4x 283kW per data centre module)
- Continuous cooling according to Uptime Institute Tier IV
- Liquid cooling can be realised in further modules

Planned Certifications

- ISO 27001:2013 – Information Security Management
- ISO 50001:2011 – Energy Management
- Tier IV – Uptime Institute

Network

- Divers data centre connection to IONOS backbone with 200 Gbit/s bandwidth at the start, easily upgradeable because based on dark fibre
- IONOS backbone with connection to the internet exchange points (3.000 Gbit/s external bandwidth)
 - LINX (London)
 - DE-CIX (Frankfurt)
 - AMS-IX (Amsterdam)
 - Plus further international internet exchange points in Europe and the USA
- Private peerings with numerous network operators
- Network connections with well-known national and international carriers

Sustainability

- Photovoltaic installation on entire roof (installed 524 kWp)
- Use of green electricity only
- Use of HVO diesel for generators (Reduction of up to 90% of net CO₂ emissions)
- Charging points for electrical vehicles in the car park
- Several further sustainability features like sustainable landscaping, green roofs and wood cladding on auxiliaries buildings, bug hotels, etc.
- Carbon-neutral building envelope

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