

Datum

MCR 1: Technical specification

One of the best connected and protected data centre sites in the UK, MCR1 was launched in 2007. This enterprise-grade facility boasts 22,000ft^2 of technical space across five data halls, and features an on-site police-linked NSI Gold Approved Alarm Receiving Centre (ARC).

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Full technical specification

Capacity

Power circuits	• Standard full racks with up to 32Amp dual circuits and up to 8kW per individual rack space.
Rack sizes	• Quarter, half and full rack enclosures.
Caged space	• Dedicated secure cages for multiple racks; bespoke sizes.
Rack space capacity	• Up to 450 racks across 5 data halls.

Power systems and protection

Mains feeds	• Resilient priority A ring feeding data centre. High-V sub station.
UPS capacity	• Ground floor — 1600kVA Riello UPS in N+N configuration. • Third floor — 1000kVA Riello UPS in N+N configuration.
Generators	• High capacity diesel generation in N+1 synchronised, fault tolerant configuration. • 4x changeover panels (2xA side and 2xB side) with intelligent deep sea controllers.
Fuel supply	• 29,000 litres bulk fuel tank on-site providing over 100 hours continuous runtime. • 24/7 refuelling contract with local fuel supplier.
Mains efficiency	• Super-low-loss 2MVA electrical transformer. • Voltage optimisation regulating incoming mains voltage for conditioned power supply to equipment and maximum efficiency.
SLA	• Power availability SLA 99.9999%.

Cooling

Data centre and plant room cooling systems	• Highly efficient, high capacity HVAC systems split between A and B side power feeds, in N+1 configuration. N+1 resilient.

Fire protection

Fire detection and prevention	• VESDA® smoke detection. • FM200 and Argonite gaseous fire suppression systems in data halls and critical plant areas. • P1 building fire system.

Connectivity

Description	• Carrier neutral, multiple carriers' diverse points of entry. Tier 1 carriers and dark fibre available. Various resilient connection options.
Major providers	• ANS Group, BSO, BT, Cogent, Colt, euNetworks, Exascale, Gamma, GTT, Internet Connections, ITS Technology, M247, Neos Networks, RETN, Quickline Communications, Veloxserv, Virgin Media, Vodafone, Wavenet, Wifinity, Zayo.
Peering	• IX Manchester direct peering — core Point of Presence on-site.
Rack cross connects	• Copper or fibre: To client requirements. **One off install charges only, no recurring charges.**
Metro and long reach network	• Direct connections to major Manchester and London data centres.

Security

Live monitoring	• Live CCTV monitoring, surveillance and incident response via on-site, police linked Alarm Receiving Centre and BS5979 S.O.C.
Perimeter protection	• Anti-climb full height perimeter fence, infra-red virtual trip wires, audio challenge and CCTV cameras to BS8418 standards. • Thermal imaging motion detection with Grade 3 Intruder Alarm Systems. • High speed, electronic security gates at building perimeter. • ANPR number-plate recognition systems in operation.

Security (continued)

Security resilience	• Security Operations Centre (SOC) has own on-site data centre, fibre, cooling and UPS systems with no dependencies on the wider data centre infrastructure for complete resilience and autonomous operation.
Secure visitor access	• Multi factor access control systems including anti tailgating man-traps protected by access card, PIN, volumetric and biometric (iris recognition) checks before access is granted to critical areas. 24/7 client access.
Compliance and certifications	• ISO27001 certified (BSI) security to NSI Gold Approved BS5979. • Caged area or single racks to PCI DSS. • PASF (Police Approved Secure Facility). • SC cleared technical support and operations staff.

bsi ISO/IEC 27001 Information Security Management CERTIFIED
IS590824

PASF
Police Approved Secure Facility

PCI DSS COMPLIANT

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