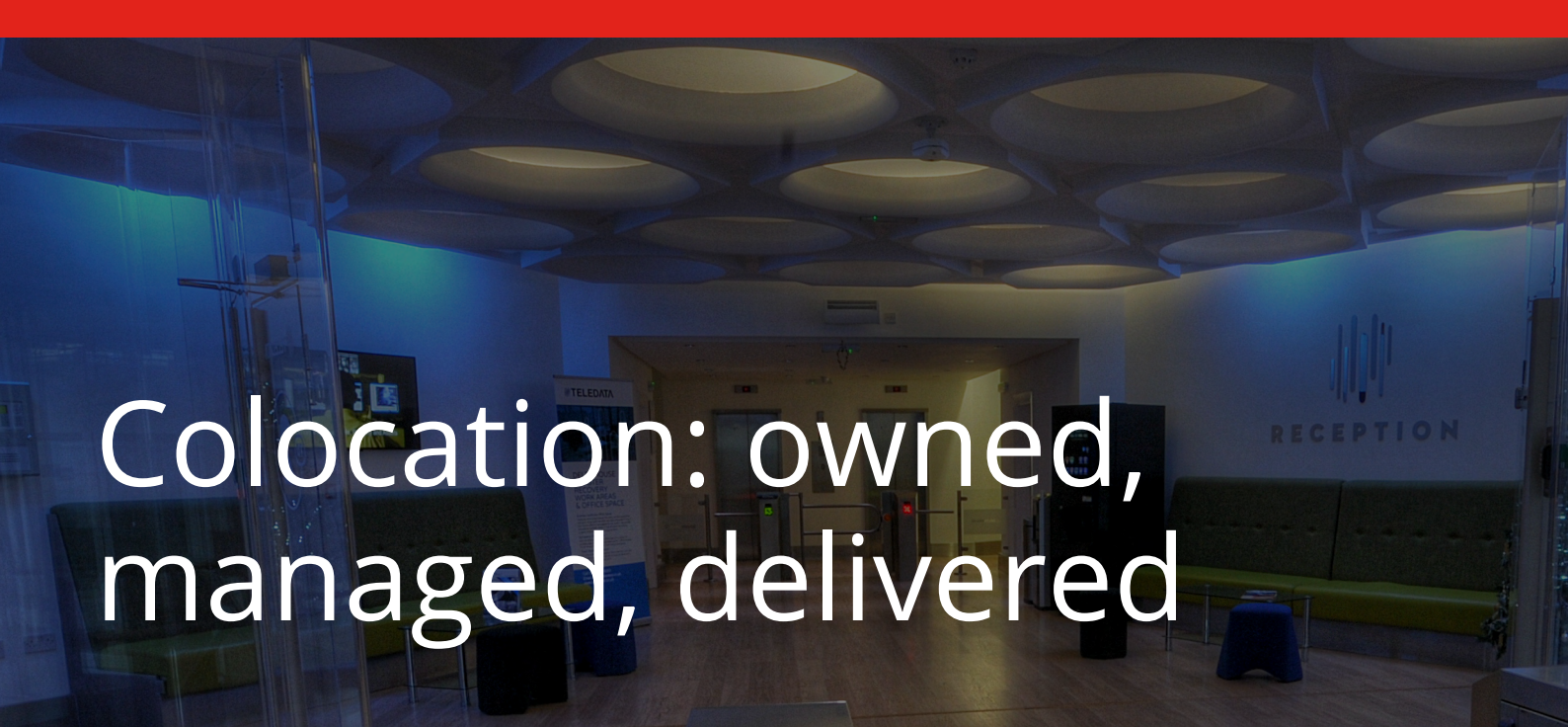


# Data centre and colocation services overview

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# Colocation: owned, managed, delivered

At our Delta House data centre, we offer a range of rack solutions for different size requirements. Each solution can be provided with a variety of different power levels to accommodate a wide range of equipment and services depending on your needs.

## Quarter racks

A 10u quarter rack is our most compact solution, provided for clients who don't require a huge amount of space but that do still require the security and resilience of a fully dedicated data centre solution. A quarter rack offers a private compartment with individual UPS protected power supplies and dedicated circuit breakers to ensure separation of electrical distribution from all other clients within the data centre. The quarter rack unit has individual, lockable front and back doors with combination locks for added security. Up to 8amps can be provided to a quarter rack.

## Half racks

A half rack provides 22u of dedicated colocation space and a completely secure enclosure for your servers. A TeleData half rack is provided with dual power as standard offering a minimum of N+N UPS power protection on separate circuits. Should one of

the dual power feeds be removed for any reason the other feed to your half rack will continue to provide all the UPS backed power that your rack requires. The half rack unit has individual, lockable front and back doors with combination locks for added security. Up to 16Amps can be provided to a half rack.

## Full racks

For larger requirements, clients can be provided with a full 48u or 42u full rack. The full height rack is dedicated to you and stands on its own data centre footprint. Powered by dual 16 or 32Amp power circuits, depending on your power usage requirements, a full rack offers flexibility and growth potential. UPS protection is provided with up to 2(N+N) UPS resilience. Full racks can be provided with up to 32amps continual power draw.

## Dedicated cages and suites

For the ultimate in large scale colocation solutions, TeleData offer fully enclosed cages or suites for multiple rack requirements. Each private cage can be made bespoke to client specifications, with tailored growth plans for staged occupation of reserved space. Cages benefit from an additional layer of security, which can include biometric security on the cage doors and bespoke access control procedures. With a dedicated cage solution you are in control of your space and commercials are flexible to meet your anticipated usage profile over a period of time. Cages can be provided for requirements of 5 racks and over – up to over 100 racks in dedicated rooms.

# Delta House: full technical specification

## Overview

• Location	Manchester, M22 5QZ
• Designation	Inside Manchester Airport Enterprise Zone
• Ownership	Privately designed, built, owned and operated
• Operations	On-site NOC for in-house monitoring BS 8418 (CCTV Monitoring) and environmental & operational monitoring
• Facility size	80,000 sq ft (7000 sq ft Technical space)
• Transport	Manchester Airport (2KM), Airport transport hub connects to Central Manchester and London and UK rail network. M56 <1.6KM away
• Amenities	Meeting rooms, office space available
• Efficiency	Bespoke BMS system monitoring power usage efficiency and environmental. Including dust, flood, temperature, humidity, plant operations and cooling. A combination of Adiabatic, Free Air and DX provides efficiency in cooling without compromise

## Rack configurations

• Power circuits	Standard full racks provision 8, 12, 16, 20 or 32 amps
• Rack sizes	Half and quarter racks available. Full racks 42, 47 and 48U
• Caged space	Dedicated secure cages for multiple racks, bespoke sizes
• Options	N+N to 2(N+N) Single/Dual Feed Power Options
• Rack capacity	Dual feed 8KW available load to individual racks

## Rack power protection

• Mains feeds	Direct 11,000 HV Dual Feed. Own High-V Sub Station. Priority A ring feeding local hospital
• UPS	2(N+N) UPS system: 4 x 400Kva.Riello UPS inc dual redundant change over panels
• Generators	Caterpillar diesel generation. 10,000L fuel on-site
• SLA	100% Power

## Cooling systems

• Data centre	Dual circuit DX CRAC down flow Air Handling Units in N+1 configuration
• Plant room	Adiabatic cooling backed with multiple split AC units

## Network availability

• Description	Carrier Neutral, multiple carriers' diverse points of entry. Tier 1 carriers and dark fibre available. Resilient connection options
• Providers	Level 3, Hibernia Atlantic, Cogent, Virgin Media, SSE, C2, Vodafone, Internet Connections, Allegro Networks, BT, N3, Metronet, Avensys, Eison, peering groups
• Fibre	Vodafone, SSE, Level3, BT, Virgin Media, TeleData
• Cabling	Copper or fibre: To client requirements
• Backhaul	TeleData fibre: Owned, operated and lit direct fibre links to Central Manchester and London provides connectivity to national and international major carriers

## Security and fire protection

• Monitoring	Manned security on-site and CCTV surveillance throughout, via an independent ARC (Alarm Receiving Centre) provides physical security and monitoring - BS 5979 CATii
• ARC	24 hrs Manned Security Control Room (ARC). ARC infrastructure has no dependencies on the data centre. BS5979 CATii accredited, separate data centre for Security Control infrastructure and operations
• Access	24 hrs - Biometric (Iris) scanners and swipe card access 24hr CCTV monitoring, visual verification 24/7. Racks are anonymous and have individual security codes.
• Perimeter	Anti-climb fence, Infra-Red, remote voice challenge, automated gates, 24/7 CCTV monitoring to BS8418
• Fire detection	VESDA smoke detection FM200 and Argonite suppression in data halls and critical plant rooms
• PCI DSS	Caged area or single racks to PCI DSS

**TeleData UK Ltd**

Delta House, Wavell Road,  
Manchester, M22 5QZ

**t:** +44 (0)333 888 4083

**e:** [enquiries@teledata.co.uk](mailto:enquiries@teledata.co.uk)

**[www.teledata.co.uk](http://www.teledata.co.uk)**