

Technical Details of New Data Centre located at City Reach



Key Features

- Located in Docklands, London
- 24x7 Network Operation centre and Support Services
- Connectivity to all leading providers
- Dedicated Plant
- Innovative site design to optimise efficiency
- Individual cabinet monitoring
- Standard 3KW power allocation
- Telepresence Solution
- Secure environment, security personnel onsite 24x7x365
- New facility available from April 2011

Company Details

QiComm is a leading independent provider of voice and data systems, information technology solutions and technical outsourcing.

QiComm operates state of the art Tele-housing and Data Centre in Central London. This facility is for both established and new carriers looking for co-location, bandwidth, value added services and/or maintenance services.

QiComm specialises in supporting the interconnect business in international voice and data markets by providing the ability to deliver bandwidth in a reliable and cost effective manner.

Hosting and supporting customer equipment is an area where QiComm is well established in the market, with the expertise to work with high volume network transport and engineering services throughout Europe and the rest of the World.

In all QiComm sites we offer

- Reliability
- Security
- Redundancy
- Scalability
- Managed services

Location

QiComm's new prestigious Data Centre is located at City Reach, Greenwich View.

City Reach forms part of the Greenwich View Place Estate situated in the Crossharbour district of the London Dock-lands overlooking Millwall Outer Dock.

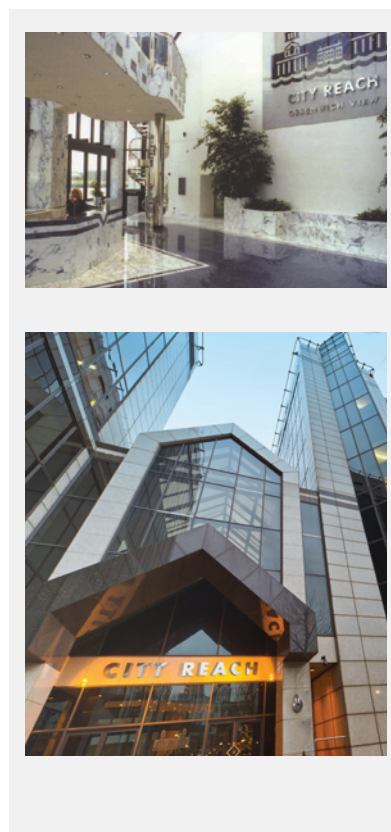
By car the building is accessed via Mastmaker Road off Marsh Wall, leading into Millharbour and then Greenwich View Place.

By train Crossharbour DLR station is situated within five minutes of the building, with services to Bank, Lewisham and Stratford.

Extensive shopping is available at Canary Wharf with local amenities on Pepper Street, the ASDA superstore and the Tiller Leisure Centre

Tier Rating

QiComm anticipates a Tier Rating of between 2 and 3 for its new Data Centre.



Building Specifications

Car Park : The building has extensive car parking available at surface level with additional spaces in a secure underground car park.

Space : The QiComm facility has a total of 22,500 Square feet of Co-location and Disaster Recovery space.

Ground floor area : Approx 5,500 sq ft, plus additional smaller dedicated Carrier Room of approx 900sq ft.

Total first floor area : 16,760sq ft divided into a 6,200 sq ft Data Centre plus a divided office area and also a further 6,200 sq ft for a future additional Data Centre.

Raised floor void height : 700mm.

Height from raised floor to false ceiling : 2.66 metres.

City Reach building floor loading : 5745 Newton per square metre on both ground and first floors.

Lighting : QiComm has installed lighting to meet a specification of 500 Lux or better.

Cabinets

QiComm standard cabinet policy

Install suites of Rittal 42U 600mm x 1000mm racks utilising a Cold Aisle Containment philosophy. Cold Aisle Containment increases the energy efficiency and performance capability of climate control, and so allows a superior output density compared with more traditional cooling implementations.

Our cold aisle containment is a combination of door and roof components which facilitate consistent separation of the hot and cold air in the data centre. Our suites of cabinets are formed into aisles with roof and door components to control hot & cold air management and to route cold air selectively to the equipment. Such separation is fundamental to saving energy and increasing the efficiency of the available climate control technology. It is the separated cold air that ensures the equipment is at its best in the enclosures.

QiComm have standardised on Grey colour cabinets to improve light diffusion. Each suite of cabinets has a slim-line door element with viewing window. The cabinets are fitted with stable roof components in a composite metal with a high level of light permeability. The use of genuine glass (toughened safety glass) ensures there is no significant increase in fire load.



Cabinet Power Detail

QiComm's Standard Power Policy

Power allocation : 3KW per cabinet

Cabinet Power Feed : Dual 16 Amp feeds per rack
Option for upgrade to 32 Amp power feeds

Intelligent Monitoring : Intelligent power system modules fitted per rack as standard
Linked via SNMP to QiComm NOC to monitor power drawn
Min/max voltage, current limit alarms, settable with SNMP trap messages
Cabinet temperature and humidity monitoring also available

Power Distribution

PUE Rating : QiComm's Data Centre has a Target PUE rating of 1.5

QiComm planned its new Data Centre Power Infrastructure build in two phases:

Phase 1 : A modular M&E infrastructure, giving 1MVA, and allowing easy future upgrade
2 x Caterpillar 3512B 1500KVAa Prime rated Generator sets installed

Phase 2 : adds a further generator and additional plant to support a second Data Hall
space allocated for additional Caterpillar 3512B 1500KVAa Prime rated Generator set

Generators : Each generator is of rugged durable design, complete with 500 litre service tank.

- each generator fuel tank also linked to building bulk fuel tank
- generator sets are equipped with a set mounted Woodward control panel including auto start/stop and automatic synchronising function with mains incoming supply.

Rotary UPS

The rotary UPS : a flywheel energy storage system operating with up to 98% efficiency

- simple and predictable operation
- requires only a low maintenance schedule.
- protects up to twice the power in half the footprint of a legacy battery-based system.

Cooling

Cold Aisle Containment Philosophy : optimum handling of hot and cold air for increased efficiency

Air conditioning : N+1 DX from Emerson Network Power-Liebert HPM DX indoor cooling units.

Liebert HPM Free cooling units : cabinet air-conditioners that do not consume power when not required works 365 days a year

in cold weather, uses the low outdoor temperature to cool the rooms without using the compressors.

feature EC fans with under floor delivery.

equipped with iCOM control, featuring an integrated Web connection and two optional graphic display types for management through QiComm's SNMP based BMS system.

Fire Suppression

Vesda smoke detection system

Aspirating smoke detectors : continuously draw air through a network of pipes back to the detector provide the very early warning that is critical in a clean room

FM200 Fire suppression system

Fire Suppression System : fast and effective against Class A, B and electrical fires environmentally acceptable and safe for human exposure.

leaves no residue on valuable equipment after discharge.

Security

QiComm Data Centre Access : 24x7x365 access subject to agreed security clearance procedures

Data Centre Security : CCTV monitoring to all area's with Proximity Card access system to suites, rooms and racks. Also available

Communications

Diverse Fibre Routes into Data Centre

Situated close to a number of existing Data Centres, QiComm's Data Centre can offer diverse fibre routes into the building with links available from a number of leading Telecommunication vendors, further details upon request.

QiComm Fibre Ring

QiComm has its own dark fibre ring network between Telehouses North, East and West

Network Operations Centre (NOC)

Technical Support : QiComm's established NOC (Network Operations Centre) will be situated at City Reach. the NOC is the first point of contact for any first line technical support required regarding quality of service or technical assistance requests.

Support Availability : QiComm's technical staff are available 24 x 7 throughout the year.

Fault Investigations : faults / trouble reports are investigated and resolved using analytical processes to identify causes and to isolate them, effectively and efficiently, preventing disruption to customers.

Written Procedures : to support and enhance the analysis of problems and provide rapid solutions, QiComm has produced procedures that lay out a defined set of detailed investigation actions

Support Services

Managed Services

With our skilled on site engineers, or teaming with skilled partners, QiComm are able to offer clients a complete range of managed services. These include:

- IP bandwidth services
- Agreed regular Data back-up and archiving between locations
- SAN storage installation and support
- Network Monitoring and security to include prevention of a denial-of-service attack
- Virtualisation
- Cloud support of dynamically scalable virtualized resources.

Telepresence Solution

QiComm has installed within a dedicated office the global VPN platform.

The Telepresence Solution

A suite of features and capabilities delivering a flexible, all inclusive virtual “face-to-face” collaboration solution

offers an "in-person" meeting experience with the ease of pushing a button. utilises the latest high-definition video, real time audio and a standardised interior design.

groups can feel gathered together in the same room across a virtual table

business-to-business multi-point meet-me bridging capability allows participants to transparently meet with customers, employees, suppliers and partners, in multiple locations around the world.

Environmental Policy

QiComm recognizes that it must achieve its business objectives in a manner that reflects the changing environmental priorities of its clients and society. Accordingly, in the development of its business services, including the manner of delivery and disposal of material, QiComm complies with UK legislation and the companies within which it operates, and strives to:

- a. Work proactively with clients, suppliers and employees to conserve the natural environment.
- b. Implement processes and controls to minimize environmental problems.
- c. Progressively reduce waste, particularly surplus materials.
- d. Procure materials and equipment that are environmentally friendly and more energy efficient than those they replace.
- e. Supply products that are environmentally friendly and energy efficient wherever possible.
- f. Reduce power and fuel consumption.
- g. Ensure that all employees are made aware of the impact of their activities on the environment.
- h. Provide training and support for staff to ensure our commitments and objectives are achieved.
- i. Establish and monitor our targets for environmental protection.



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